

DEPARTMENT OF THE ARMY FIELD MANUAL

MARINE CORPS FLEET MARINE FORCE MANUAL

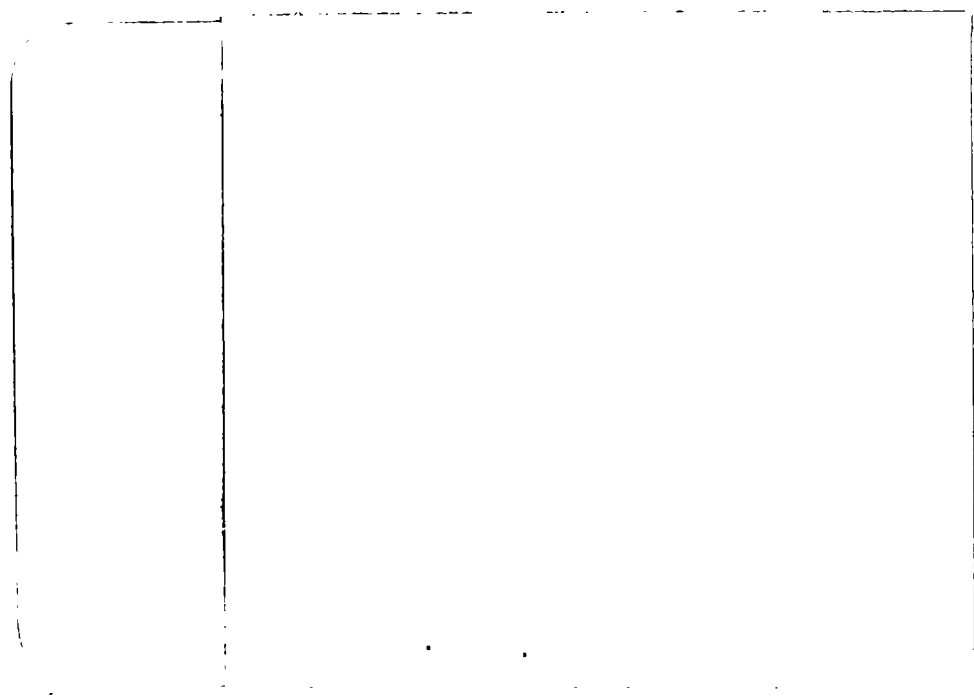
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FMFM 11-4B

STAFF OFFICERS' FIELD MANUAL
NUCLEAR WEAPONS EMPLOYMENT
EFFECTS DATA

DEPARTMENTS OF THE ARMY AND THE NAVY

FEBRUARY 1968



S/S June 1977

FOREWORD

This manual provides unclassified data for the application of nuclear target analysis as presented in FM 101-31-1/ FMFM 11-4. It may be used for basic instruction in units and service schools where utilization of classified reference material is not feasible. In accordance with STANAG 2111, Target Analysis Nuclear Weapons, NATO Armed Forces have agreed to use the terminology and procedures in this manual.

Users of this manual are encouraged to submit recommendations to improve its clarity or accuracy. Comments should be keyed to the specific page, paragraph, and line in which the change is recommended. Reasons should be provided for each comment to insure understanding and complete evaluation. Comments should be forwarded directly to the Commanding Officer, U.S. Army Combat Developments Command Institute of Nuclear Studies, Fort Bliss, Texas 79916. Originators of proposed changes that would constitute a significant modification of approved Army doctrine may send an information copy, through command channels, to the Commanding General, U.S. Army Combat Developments Command, Fort Belvoir, Virginia 22060, to facilitate review and followup.

S/S June 1977

* FM 101-31-3
FMFM 11-4B

FIELD MANUAL
No. 101-31-3

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DEPARTMENTS OF THE ARMY
AND THE NAVY
Washington, D.C., 15 February 1968

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	Page
CHAPTER 1. Composition of Manual and Procedures for Use.....	3
2. Weapon System Characteristics.....	7
3. Preinitiation.....	25
4. Exposed Personnel - Prompt Casualties.....Airburst.....	26
5. Exposed Personnel - Delayed Casualties.....Airburst.....	54
6. Protected Personnel - Prompt Casualties.....Airburst.....	82
7. Protected Personnel - Delayed Casualties...Airburst.....	110
8. Wheeled Vehicles.....Airburst.....	138
9. Tanks and Artillery.....Airburst.....	166
10. Atomic Demolition Munitions.....	194
11. Exposed Personnel - Prompt Casualties.....Surface Burst..	210
12. Exposed Personnel - Delayed Casualties.....Surface Burst..	228
13. Protected Personnel - Prompt Casualties.....Surface Burst..	246
14. Protected Personnel - Delayed Casualties...Surface Burst..	264
15. Wheeled Vehicles.....Surface Burst..	282
16. Tanks and Artillery.....Surface Burst..	300
17. Weapons Effects Tables.....	319
18. Graphs and Tables.....	386
Glossary	394

* This manual supersedes FM 101-31-3, 1 February 1963.

CHAPTER 1

COMPOSITION AND PROCEDURES

1-1. GENERAL. This chapter provides an explanation of what chapters are presented in this manual and what values were used in obtaining the data for the tables.

a. The metric system of measurement is used except for weapon dimensions.

b. The yield shown for each weapon is the nominal yield. Damage radii were computed using the lower yield of the yield variation, and the safety tables were computed using the higher yield of the yield variation.

c. The data presented for system accuracy is the best estimate of total system accuracy, not solely round-to-round precision.

1-2. CHAPTER 2, WEAPON SYSTEM CHARACTERISTICS. This chapter provides general and specific information concerning each weapon system to include yields available, fuzing considerations, employment considerations, and response times.

1-3. CHAPTER 3, PREINITIATION. This chapter gives preinitiation considerations. Data is shown to assist the analyst in scheduling nuclear fires when a multiple weapon attack is desired.

1-4. CHAPTERS 4-9, TARGET TABLES FOR AIRBURSTS. These chapters consist of two types of tables for each weapon system and primary target category.

a. Coverage Tables. These tables show the precomputed effectiveness of each weapon in the form of a coverage index, the probable minimum radius of damage, and system accuracy data, using a low air height of burst.

(1) The coverage index is a two part number describing the fraction of damage to an accurately located circular area target having uniformly distributed elements. The first decimal represents the minimum fraction of damage that will occur with a 90% assurance considering both horizontal and vertical delivery errors. The second decimal represents the expected fractional damage.

(2) The low air height of burst has been shown to give the best "across-the-board" damage to most tactical targets consisting of various target elements, while having a 99 percent assurance of not producing fallout. For yields of 100 KT or less it is computed as the greater of $30(W)^{1/3}$ meters plus 3.5 probable errors in height, or $53(W)^{1/3}$ meters. For yields greater than 100 KT it is computed as $56(W)^{1/3}$ meters plus 3.5 probable errors in height.

(3) The probable minimum radius of damage represents the radius of damage that there is a 90% assurance of equaling or exceeding. The assurance pertains only to vertical dispersion.

b. Safety Tables. These tables list data pertaining to troop safety, preclusion of damage, and the preclusion of obstacles. ✓

(1) The data for troop safety is the minimum safe distance (MSD) consisting of a radius of safety and a buffer distance for 99% assurance.

(2) The data for preclusion of damage is based on the following criteria:

(a) No moderate damage to fixed bridges. A buffer distance is included for 90% assurance.

(b) No light damage to frame buildings. A buffer distance is included for 90% assurance.

(c) No damage to light aircraft in flight is based on 0.5 psi static overpressure. A buffer distance is included for 99% assurance.

(3) The data for preclusion of obstacles is based on the following criteria:

(a) Severe damage for deciduous tree blowdown plus a buffer distance for 90 percent assurance.

(b) Severe damage for coniferous tree blowdown plus a buffer distance for 90 percent assurance.

(c) No fires at 50 percent relative humidity in dry fuels plus a buffer distance for 90 percent assurance.

(d) No fires at 50 percent relative humidity in green fuels plus a buffer distance for 90 percent assurance.

1-5. CHAPTER 10, TARGET TABLES FOR ATOMIC DEMOLITION MUNITIONS. This chapter consists of the characteristics and damage tables for several of the atomic demolition munitions of the hypothetical ADM family presented in FM 5-26.

1-6. CHAPTERS 11-16, TARGET TABLES FOR SURFACE BURSTS. These chapters contain tables similar to those discussed in Chapters 4-9. In some cases the burst height is other than zero meters ; however, it is included in this chapter because it produces fallout.

1-7. CHAPTER 17, WEAPON EFFECTS TABLES. This chapter contains a table for each weapon system, showing radii of damage against specified target types as a function of burst height.

a. Personnel casualties in multi-story apartment buildings are based on severe damage to brick-apartment house type multi-story wall bearing buildings. (Neutron transmission factor 0.9, gamma transmission factor 0.9.)

b. Personnel casualties in frame buildings are based on severe damage to wood frame buildings.
(Neutron transmission factor 1.0, gamma transmission factor 0.9.)

1-8. CHAPTER 18, GRAPHS AND TABLES. This chapter includes the graphs and tables used for numerical analysis.

1-9. CHAPTER 19, GLOSSARY OF TERMS.

CHAPTER 2
WEAPON SYSTEM CHARACTERISTICS

Paragraph		Page
2-1.	Short Range Cannon.....	7
2-2.	Medium Range Cannon	9
2-3.	Free Flight Rocket	11
2-4.	Light Guided Missile.....	13
2-5.	Medium Guided Missile	16
2-6.	Heavy Guided Missile	19
2-7.	Aircraft Delivered Weapons	22

CHAPTER 2

WEAPON SYSTEM CHARACTERISTICS

2-1. SHORT-RANGE CANNON

a. Orientation. This paragraph contains employment data for the short-range cannon.

b. Weapon characteristics.

(1) Yield. The short-range cannon can fire nuclear projectiles with yields of 0.5 KT and 1 KT.

(2) Fuzing. The nuclear projectiles for the short-range cannon have an airburst fuzing capability. The projectiles are fuzed by time fuzes which are set for the desired time of flight by the delivery unit. These projectiles do not have a contact surface fuzing capability. If a projectile impacts, it can be expected to break up and become a dud.

(3) Preinitiation. See chapter 3 for the necessary considerations where a multiple weapon attack is desired.

c. Employment considerations.

(1) Range. The minimum and maximum ranges of the short-range cannon nuclear projectiles are 2,000 meters and 10,000 meters.

(2) Tactical system accuracy. The horizontal and vertical dispersion errors for the short-range cannon are dependent on range. Tactical system accuracy data are contained in coverage tables.

(3) Unit carrying capacity. Not a limitation in this case.

(4) Response time. The times shown below can be used as a basis for general tactical planning. They are applicable to a reasonably well-trained unit operating in daylight under favorable weather conditions. Blackout operations, unfavorable weather, enemy interference, equipment breakdown, or faulty test indications will extend the times listed. For detailed tactical planning, the response times should be the actual times obtained from the artillery unit concerned.

<u>STATES OF READINESS</u>	<u>REACTION TIME (MINUTES)</u>	<u>DESCRIPTION</u>
II	20	High readiness - the complete round and delivery system are in a firing position and survey is completed. Preliminary firing data for a specific target are not available. (May be used to engage target of opportunity.)
I	3	Maximum readiness - the round is positioned, fuzed, and ready to fire. Firing data for a specific target have been computed and applied to the weapon system. The firing unit is in a "do not load" status awaiting the order to fire. (Typical of readiness to engage on-call target.)

(5) Special considerations. The target analyst needs no special information from the unit fire direction center for target analysis. The fire mission to the unit includes the desired height of burst in meters.

2-2. MEDIUM-RANGE CANNON

a. Orientation. This paragraph contains employment data for the medium-range cannon.

b. Weapon characteristics.

(1) Yield. The medium-range cannon can fire nuclear projectiles with yields of .5 KT, 1 KT and 2 KT.

(2) Fuzing. The nuclear projectiles for the medium-range cannon have an airburst fuzing capability. The projectiles are fuzed by time fuzes which are set for the desired time of flight by the delivery unit. These projectiles do not have a contact surface fuzing capability. If a projectile impacts, it can be expected to break up and become a dud.

(3) Preinitiation. See chapter 3 for the necessary considerations where a multiple weapon attack is desired.

c. Employment considerations.

(1) Range. The minimum and maximum ranges of the medium-range cannon nuclear projectiles are 2,000 meters and 20,000 meters.

(2) Tactical system accuracy. The horizontal and vertical dispersion errors for the medium-range cannon are dependent on range. Tactical system accuracy data are contained in Coverage Tables.

(3) Unit carrying capacity. Not a limitation in this case.

(4) Response time. The times shown below can be used as a basis for general tactical planning. They are applicable to a reasonably well-trained unit operating in daylight under favorable weather conditions. Blackout operations, unfavorable weather, enemy interference, equipment breakdown, or faulty test indications will extend the times listed. For detailed tactical planning, the response times should be the actual times obtained from the artillery unit concerned.

<u>STATES OF READINESS</u>	<u>REACTION TIME (MINUTES)</u>	<u>DESCRIPTION</u>
II	20	High readiness - the complete round and delivery system are in a firing position and survey is completed. Preliminary firing data for a specific target are not available. (May be used to engage target of opportunity.)
I	3	Maximum readiness - the round is positioned, fuzed, and ready to fire. Firing data for a specific target have been computed and applied to the weapon system. The firing unit is in a "do not load" status awaiting the order to fire. (Typical of readiness to engage on-call target.)

(5) Special considerations. The target analyst needs no special information from the unit fire direction center for target analysis. The fire mission to the unit includes the desired height of burst in meters.

2-3. FREE FLIGHT ROCKET

a. Orientation. This paragraph contains employment data for free flight rockets with their associated warhead sections fired from mobile launchers.

b. Weapon characteristics.

(1) Yields. The warhead sections for free flight rockets have yields of 5 KT, 10 KT, 50 KT, and 100 KT.

(2) Fuzing. The fuzing for free flight rockets provides airburst and impact fuzing options. The airburst option is fuzed by time fuzes which are set for the desired time of flight by the delivery unit. Setting the fuze for airburst precludes the use of the impact fuzing system as a backup.

(3) Preinitiation. See chapter 3 for the necessary considerations where a multiple weapon attack is desired.

c. Employment considerations.

(1) Range. The minimum and maximum ranges of the free flight rockets are 5,000 meters and 40,000 meters.

(2) Tactical system accuracy. The horizontal and vertical dispersion errors for the free flight rockets are dependent on range. Tactical system accuracy data are contained in the Coverage Tables.

(3) Unit carrying capacity. A free flight rocket unit can draw, transport, and store at any one time a total of 25 complete rounds per battalion.

(4) Response time. The times shown below can be used as a basis for general tactical planning. They are considered to be applicable to a reasonably well trained unit operating in daylight under favorable weather conditions. Blackout operations, unfavorable weather, enemy interference, equipment breakdown, or faulty test indications will extend the times listed. For detailed tactical

planning, the response times should be the actual times obtained from the artillery unit concerned.

<u>STATES OF READINESS</u>	<u>REACTION TIME (MINUTES)</u>	<u>DESCRIPTION</u>
II	30	High Readiness - the complete round and launcher are in a firing position and survey is completed. Preliminary firing data for a specific target are not available. Pre-fire checkouts which can be performed prior to the receipt of a fire mission have been completed. (May be used to engage targets of opportunity within range.)
I	5	Maximum Readiness - firing data for a specific target have been computed and applied to the weapon system. The unit is awaiting an order to fire. (Typical of readiness to engage on-call target.)

Remarks: For State of Readiness II, add 20 minutes if warhead section must be removed and a new warhead section with required yield mated to rocket.

(5) Special considerations. The target analyst needs no special information from the unit fire direction center for target analysis. For an airburst, the fire mission to the unit includes the desired height of burst in meters. For a contact surface burst, an impact option is requested.

2-4. LIGHT GUIDED MISSILE

a. Orientation. This paragraph contains employment data for the light guided missile with its associated warhead sections fired from a mobile launcher.

b. Weapon characteristics.

(1) Yield. The warhead sections for the light guided missile have yields of 2 KT, 5 KT, 10 KT, and 20 KT.

(2) Fuzing.

(a) The fuzing for the light guided missile provides airburst and impact fuzing options. The airburst option is radar-fuzed and can be set for either high or low airburst; these are the only heights of burst available. When the fuze is set for an airburst, the system provides for an option of either contact backup or contact preclusion.

(b) The fuzes are preset at the following heights of burst:

<u>Warhead Section</u>	<u>HOB Option</u>	<u>HOB (meters)</u>	<u>PEH (meters)</u>
2 KT	low	143	30
	high	238	
5 KT	low	157	30
	high	285	

<u>Warhead Section</u>	<u>HOB Option</u>	<u>HOB (meters)</u>	<u>PEH (meters)</u>
10 KT	low	170	30
	high	332	
20 KT	low	187	30
	high	391	

(3) Preinitiation. See chapter 3 for the necessary considerations where a multiple weapon attack is desired.

c. Employment considerations.

(1) Range. The minimum and maximum ranges of the light guided missile are 10,000 meters and 50,000 meters.

(2) Tactical system accuracy. The tactical system errors for the light guided missile are independent of range. A circular error probable (CEP) of 100 meters has been used in the computation of the coverage table values. The vertical probable error (PE_h) is 30 meters.

(3) Unit carrying capacity. A light guided missile unit can draw, transport, and store at any one time a total of 12 complete rounds per battalion.

(4) Response time. The times shown below can be used as a basis for general tactical planning. They are considered to be applicable to a reasonably well-trained unit operating in daylight under favorable weather conditions. Blackout operations, unfavorable weather, enemy interference, equipment breakdown, or faulty test indications will extend the times listed. For detailed tactical planning, the response times should be the actual times obtained from the artillery unit concerned.

<u>STATES OF READINESS</u>	<u>REACTION TIME (MINUTES)</u>	<u>DESCRIPTION</u>
II	30	High readiness - the complete round and launcher are in a firing position and survey is completed. Preliminary firing data for a specific target are not available. Prefire checkouts which can be performed prior to the receipt of a fire mission have been completed. (May be used to engage targets of opportunity.)
I	10	Maximum readiness - firing data for a specific target have been computed and applied to the weapon system. The unit is awaiting an order to fire. (Typical of readiness to engage on-call target).

Remarks: For State of Readiness II, add 20 minutes if warhead section must be removed and a new warhead section with required yield mated to missile.

(5) Special considerations. The target analyst needs no special information from the unit fire direction center for target analysis. For an airburst fuzing option, the fire mission to the unit includes the radar height of burst (HOB) setting, high or low; it also includes whether contact backup or contact preclusion is desired. When contact backup is chosen, a fallout prediction is made. When an impact fuzing option is selected, the fire mission specifies HOB impact.

2-5. MEDIUM GUIDED MISSILE

a. Orientation. This paragraph contains employment data for the medium guided missile with its associated warhead sections fired from a mobile launcher.

b. Weapon characteristics.

(1) Yield. The warhead sections for the medium guided missile have yields of 10 KT, 20 KT, 50 KT, 100 KT, and 200 KT.

(2) Fuzing.

(a) The fuzing for the medium guided missile provides airburst and impact fuzing options. The airburst option is radar-fuzed and can be set for either high or low airburst; these are the only heights of burst available. When the fuze is set for an airburst, the system provides for an option of either contact backup or contact preclusion.

(b) The fuzes are preset at the following heights of burst:

<u>Warhead Section</u>	<u>HOB Option</u>	<u>HOB (meters)</u>	<u>PEH (meters)</u>
10 KT	low	240	50
	high	402	
20 KT	low	257	50
	high	461	
50 KT	low	286	50
	high	562	

<u>Warhead Section</u>	<u>HOB Option</u>	<u>HOB(meters)</u>	<u>PEH (meters)</u>
100 KT	low	315	50
	high	663	
200 KT	low	502	50
	high	790	

(3) Preinitiation. See chapter 3 for the necessary considerations where a multiple weapon attack is desired.

c. Employment considerations.

(1) Range. The minimum and maximum ranges of the medium guided missile are 50,000 meters and 150,000 meters.

(2) Tactical system accuracy. The tactical system errors for the medium guided missile are independent of range. A CEP of 500 meters has been used in the computation of the coverage table values. The vertical probable error is 50 meters.

(3) Unit carrying capacity. A medium guided missile unit can draw, transport, and store at any one time a total of 8 complete rounds per battalion.

(4) Response time. The times shown below can be used as a basis for general tactical planning. They are considered to be applicable to a reasonably well-trained unit operating in daylight under favorable weather conditions. Blackout operations, unfavorable weather, enemy interference, equipment breakdown, or faulty test indications will extend the times listed. For detailed tactical planning, the response times should be the actual times obtained from the artillery unit concerned.

<u>STATES OF READINESS</u>	<u>REACTION TIME (MINUTES)</u>	<u>DESCRIPTION</u>
II	60	High readiness - the complete round and launcher are in a firing position and survey is completed. Preliminary firing data for a specific target are not available. Prefire checkouts which can be performed prior to the receipt of a fire mission have been completed. (May be used to engage targets of opportunity.)
I	20	Maximum readiness - firing data for a specific target have been computed and applied to the weapon system. The unit is awaiting an order to fire. (Typical of readiness to engage on-call target).

Remarks: For State of Readiness II, add 25 minutes if warhead section must be removed and a new warhead section with required yield mated to missile.

(5) Special considerations. The target analyst needs no special information from the unit fire direction center for target analysis. For an airburst fuzing option, the fire mission to the unit includes the Radar HOB setting, either High or Low, and whether or not contact backup or contact preclusion is desired. When contact backup is chosen, a fallout prediction is made. When an impact fuzing option is selected, the fire mission specifies HOB impact.

2-6. HEAVY GUIDED MISSILE

a. Orientation. This paragraph contains employment data for the heavy guided missile with its associated warhead sections fired from a mobile launcher.

b. Weapon characteristics.

(1) Yield. The warhead sections for the heavy guided missile have yields of 200 KT, 500 KT, 1000 KT (1 MT), 2000 KT (2 MT), and 5000 KT (5 MT).

(2) Fuzing.

(a) The fuzing for the heavy guided missile provides airburst and impact fuzing options. The airburst option is radar-fuzed and can be set for either high or low airburst; these are the only heights of burst available. When the fuze is set for an airburst, the system provides for an option of either contact backup or contact preclusion.

(b) The fuzes are preset at the following heights of burst:

<u>Warhead Section</u>	<u>HOB option</u>	<u>HOB (meters)</u>	<u>PEH (meters)</u>
200 KT	low	677	100
	high	965	
500 KT	low	795	100
	high	1,184	
1000 KT	low	910	100
	high	1,400	
2000 KT	low	1,056	100
	high	1,673	
5000 KT	low	1,308	100
	high	2,146	

(3) Preinitiation. See chapter 3 for the necessary considerations where a multiple weapon attack is desired.

c. Employment considerations.

(1) Range. The minimum and maximum ranges of the heavy guided missile are 50,000 meters and 300,000.

(2) Tactical system accuracy. The tactical system errors for the heavy guided missile are independent of range. A CEP of 1,000 meters has been used in the computation of the coverage table values. The vertical probable error is 100 meters.

(3) Unit carrying capacity. A heavy guided missile unit can draw, transport, and store at any one time a total of four complete rounds per battalion.

(4) Response time. The times shown below can be used as a basis for general tactical planning. They are considered to be applicable to a reasonably well-trained unit operating in daylight under favorable weather conditions. Blackout operations, unfavorable weather, enemy interference, equipment breakdown, or faulty test indications will extend the times listed. For detailed tactical planning, the response time should be the actual time obtained from the artillery unit concerned.

<u>STATES OF READINESS</u>	<u>REACTION TIME (MINUTES)</u>	<u>DESCRIPTION</u>
II	120	High readiness - the complete round and launcher are in a firing position and survey is completed. Preliminary firing data for a specific target are not available. Prefire checkouts which can be performed prior to the receipt of a fire mission have been completed. (May be used to engage target of opportunity.
I	20	Maximum readiness - firing data for a specific target have been computed and applied to the weapon system. The unit is awaiting an order to fire. (Typical of readiness to engage on-call target.)

(5) Special considerations. The target analyst needs no special information from the unit fire direction center for target analysis. For an airburst fuzing option, the fire mission to the unit includes the Radar HOB setting, either High or Low, and whether or not contact backup or contact preclusion is desired. When contact backup is chosen, a fallout prediction is made. When an impact fuzing option is selected, the fire mission specifies HOB impact.

2-7. AIRCRAFT DELIVERED WEAPONS

a. Orientation. This paragraph contains employment data for nuclear bombs delivered by aircraft.

b. Weapon characteristics.

(1) Yield. The bombs carried by aircraft have yields of 5 KT, 10 KT, 20 KT, 50 KT, 100 KT, 200 KT, 500 KT, 1000 KT (1 MT), 2000 KT (2 MT), and 5000 KT (5 MT).

(2) Fuzing.

(a) The fuzing for these bombs provides airburst and impact fuzing options. The airburst option is radar-fuzed and can be set for either high or low airburst; these are the only heights of burst available. Contact backup is provided in all cases where the airburst option is selected.

(b) The fuzes are preset at the following heights of burst:

<u>Warhead Section</u>	<u>HOB Option</u>	<u>HOB (meters)</u>	<u>PEH (meters)</u>
5 KT	low	227	50
	high	355	
10 KT	low	240	50
	high	402	
20 KT	low	257	50
	high	461	
50 KT	low	286	50
	high	562	

<u>Warhead Section</u>	<u>HOB Option</u>	<u>HOB (meters)</u>	<u>PEH (meters)</u>
100 KT	low	315	50
	high	663	
200 KT	low	502	50
	high	790	
500 KT	low	620	50
	high	1,009	
1000 KT	low	735	50
	high	1,225	
2000 KT	low	1,056	50
	high	1,673	
5000 KT	low	1,308	50
	high	2,146	

(3) Preinitiation. See chapter 3 for the necessary considerations where a multiple weapon attack is desired.

c. Employment considerations.

(1) Range. The radius of action for aircraft varies depending on the type aircraft used. For training purposes only, a maximum radius of action of 1,000 kilometers is assumed. In an actual situation, the delivery unit concerned is consulted to obtain this information.

(2) Tactical system accuracy. Horizontal dispersion is dependent on the proficiency of the aircraft pilot and crew, and the technique of delivery. The CEP used in this chapter for aircraft delivery is an average value for well-trained crews. A CEP of 250 meters has been used in the computation of the coverage table values. The vertical probable error is 50 meters.

(3) Response time. The times shown below can be used as a basis for general tactical planning. For detailed tactical planning, the response times should be the actual times obtained from the delivery unit concerned. The times listed below are average times for normal operations after alert. Such factors as distance and routes to the bomb storage area, type of transportation, type of ground handling equipment, and enemy action influence bomb preparation and loading.

<u>STATES OF READINESS</u>	<u>REACTION TIME (MINUTES)</u>	<u>DESCRIPTION</u>
II	60	Ready - bomb is partially assembled and tested to allow shortest assembly time. The bomb is located in a storage area.
I	10	Strike - bomb is assembled and loaded on the aircraft. The aircraft and crew are on ground alert.

Remarks:

- a. In both States of Readiness, flight time must be added to the times shown.
- b. Time may vary in State of Readiness II as distance from storage area to aircraft varies.

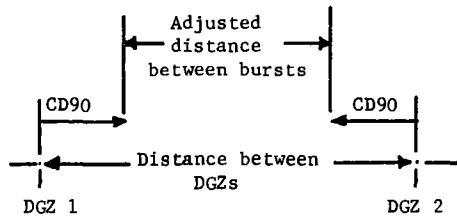
(4) Special considerations. The target analyst coordinates closely with the liaison officer representing the delivery unit concerned. The analyst needs to know the CEP involved, because CEP varies depending on the crew assigned and the delivery technique used to attack the target. When an airburst fuzing option is selected, the fire mission states the desired radar HOB setting as high or low. When an impact fuzing option is selected, the fire mission specifies HOB impact. When employing these weapons, a fallout prediction is always made.

CHAPTER 3

PREINITIATION

Preinitiation is the premature commencement of fissioning in the active material of a nuclear weapon before the degree of design supercriticality is achieved, resulting in a reduced yield.

Minimum Adjusted Distance between bursts (meters)	Minimum time delay (minutes)
Less than 1,000	3.0
1,000 - 2,499	2.0
2,500 - 4,999	1.5
5,000 - 7,499	1.0
7,500 - 9,999	0.5
10,000 and over	0.0



The following problem demonstrates the application of this table:

- Given: (1) Two weapons are to be employed. Their DGZs are 2,900 meters apart.
 (2) CD90 for the first weapon is 300 meters.
 (3) CD90 for the second weapon is 600 meters.

Find: Minimum time between bursts.

Answer: 2 minutes.

- Solution: (1) Reference to the table indicates that for bursts between 2,500 meters and 4,999 meters apart, a 1.5 minute time delay is required. However, the first weapon may burst right of its DGZ, or the second weapon may burst left of its DGZ. In order to reduce the probability of preinitiation, the time-space requirement must consider this circumstance.
- (2) Determine the distance between the two desired ground zeros. Determine the CD90 for the weapon system attacking each target. Subtract the sum of the two CD90s from the distance between DGZs.
- (3) Enter the table with this adjusted distance, $2,900 - (300 + 600) = 2,000$, and determine a waiting time of 2 minutes.

CHAPTER 4 COVERAGE TABLES FOR PROMPT CASUALTIES TO EXPOSED PERSONNEL

	Page
Short Range Cannon 0.5 KT.....	29
1.0 KT.....	31
Medium Range Cannon 0.5 KT.....	33
1.0 KT.....	35
2.0 KT.....	37
Free Flight Rocket 5.0 KT.....	39
10.0 KT.....	41
50.0 KT.....	43
100.0 KT.....	45
Light Guided Missile 2, 5, 10, and 20 KT	47
Medium Guided Missile 10, 20, 50, 100, and 200 KT	49
Heavy Guided Missile 200, 500, 1,000, 2,000, and 5,000 KT	51
Aircraft Delivered Weapons 5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, and 5,000 KT	53

TABLES OF MAXIMUM TARGET RADIUS (.3 Probable Minimum Coverage)

(Distances in Meters)

LOW AIRBURST

PROMPT CASUALTIES TO EXPOSED PERSONNEL

Range	Short Range Cannon		Medium Range Cannon			Free Flight Rocket			
	.5	1	.5	1	2	5	10	50	100
2000	1000	1200	1000	1200	1300				
3000	1000	1200	1000	1200	1300				
4000	1000	1200	1000	1200	1300				
5000	1000	1200	1000	1200	1300	1600	1800	4000	6000
6000	1000	1200	1000	1200	1300	1600	1800	4000	6000
7000	900	1200	900	1200	1300	1600	1800	4000	6000
8000	900	1200	900	1200	1300	1600	2000	4000	6000
9000	900	1100	900	1100	1300	1600	2000	4000	6000
10000	900	1100	900	1100	1300	1600	2000	4000	6000
12000			900	1100	1300	1400	2000	4000	6000
14000			900	1100	1300	1400	2000	4400	6000
16000			900	1100	1300	1400	2000	4400	6000
18000			800	1100	1300	1200	2000	4400	6000
20000			800	1000	1200	1200	2000	4400	6000
22000						1000	2000	4400	6000
24000						600	1800	4400	6000
26000							1800	4400	6000
28000							1600	4400	6000
30000							1200	4400	6000
32000								4400	6000
34000								4400	6600
36000								4400	6600
38000								4800	6600
40000								4400	6600

Light Guided Missile			
2	5	10	20
1200	1600	1800	2600

Medium Guided Missile				
10	20	50	100	200
1800	2800	4200	5400	8000

Heavy Guided Missile				
200	500	1000	2000	5000
8000	12000	16000	18000	24000

Aircraft Delivered Weapons									
5	10	20	50	100	200	500	1000	2000	5000
1400	2000	2800	4000	5800	8000	12000	15000	17000	24000

NOTE: Blank spaces indicate either the target is out of range or a probable minimum coverage of .3 cannot be obtained.

SHORT RANGE CANNON 0.5 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1700	1300	1700	1300	1400	1000	300	1000	1800	300	300	700	500
3000	1700	1300	1700	1300	1500	1100	300	1100	1800	300	300	700	500
4000	1800	1300	1800	1300	1500	1100	300	1100	1900	300	300	700	500
5000	1800	1300	1800	1300	1500	1100	300	1200	2000	300	300	800	500
6000	1800	1300	1800	1300	1500	1100	300	1200	2000	400	400	800	500
7000	1800	1300	1800	1300	1500	1100	300	1300	2100	400	400	800	500
8000	1800	1400	1800	1400	1500	1100	300	1300	2100	400	400	800	500
9000	1800	1400	1800	1400	1600	1200	300	1300	2200	400	400	800	500
10000	1900	1400	1900	1400	1600	1200	400	1400	2200	400	400	800	500

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

SHORT RANGE CANNON
0.5 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									PROB. MIN. RD	ACCURACY DATA			
RANGE	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	500	600	700	800	900	1000	1100	1200					
2000	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	501	25	14	38	5
3000	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	499	38	21	49	8
4000	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	497	51	28	56	10
5000	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	495	64	35	66	13
6000	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	493	77	42	73	15
7000	.8/.8	.7/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	489	90	49	84	18
8000	.8/.8	.7/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	487	102	56	91	20
9000	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	482	116	63	101	23
10000	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2	479	128	70	108	25

SHORT RANGE CANNON 1.0 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1500	1400	1900	1400	1600	1200	300	1300	2300	400	400	1000	700
3000	1900	1400	1900	1400	1600	1200	300	1400	2300	400	400	1000	700
4000	1900	1500	1900	1500	1600	1200	400	1400	2400	400	400	1000	700
5000	1900	1500	1900	1500	1700	1200	400	1500	2500	400	400	1000	700
6000	2000	1500	2000	1500	1700	1200	400	1500	2500	500	500	1100	700
7000	2000	1500	2000	1500	1700	1300	400	1500	2600	500	500	1100	700
8000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
9000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
10000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1100	700

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

SHORT RANGE CANNON
1.0 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	600	700	800	900	1000	1100	1200	1300					
2000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	602	25	14	49	5
3000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	601	38	21	55	8
4000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	599	51	28	62	10
5000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	597	64	35	73	13
6000	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	595	77	42	80	15
7000	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	592	90	49	90	18
8000	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	590	102	56	97	20
9000	.8/.8	.7/.7	.6/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	586	116	63	108	23
10000	.8/.8	.7/.7	.6/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	583	128	70	115	25

MEDIUM RANGE CANNON 0.5 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1700	1300	1700	1300	1400	1000	300	1000	1800	300	300	700	500
3000	1700	1300	1700	1300	1500	1100	300	1100	1800	300	300	700	500
4000	1800	1300	1800	1300	1500	1100	300	1100	1900	300	300	700	500
5000	1800	1300	1800	1300	1500	1100	300	1200	2000	300	300	800	500
6000	1800	1300	1800	1300	1500	1100	300	1200	2000	400	400	800	500
7000	1800	1300	1800	1300	1500	1100	300	1300	2100	400	400	800	500
8000	1800	1400	1800	1400	1500	1100	300	1300	2100	400	400	800	500
9000	1800	1400	1800	1400	1600	1200	300	1300	2200	400	400	800	500
10000	1900	1400	1900	1400	1600	1200	400	1400	2200	400	400	800	500
11000	1900	1400	1900	1400	1600	1200	400	1400	2300	400	400	800	600
12000	1900	1400	1900	1400	1600	1200	400	1400	2300	400	400	800	600
13000	1900	1400	1900	1400	1600	1200	400	1500	2400	400	400	800	600
14000	1900	1500	1900	1500	1600	1200	400	1500	2400	400	400	800	600
15000	1900	1500	1900	1500	1700	1300	400	1500	2400	400	400	800	600
16000	2000	1500	2000	1500	1700	1300	400	1500	2500	400	400	800	600
17000	2000	1500	2000	1500	1700	1300	400	1600	2500	400	400	900	600
18000	2000	1500	2000	1500	1700	1300	400	1600	2500	400	400	900	600
19000	2000	1500	2000	1500	1700	1300	300	1600	2500	400	400	900	600
20000	2000	1600	2000	1600	1700	1300	300	1600	2600	400	400	900	600

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
0.5 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	500	600	700	800	900	1000	1100	1200					
2000	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	501	25	14	38	5
3000	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	499	38	21	49	8
4000	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	497	51	28	56	10
5000	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	495	64	35	66	13
6000	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	493	77	42	73	15
7000	.8/.8	.7/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	489	90	49	84	18
8000	.8/.8	.7/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	487	102	56	91	20
9000	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	482	116	63	101	23
10000	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2	479	128	70	108	25
11000	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2	474	141	77	119	28
12000	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2	470	154	84	126	30
13000	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2	464	167	91	136	33
14000	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	.2/.2	459	180	98	143	35
15000	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.2	452	193	106	154	38
16000	.7/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.2	447	205	112	161	40
17000	.6/.7	.5/.6	.4/.5	.3/.3	.2/.3	.2/.2	.2/.2	.1/.2	438	219	120	171	43
18000	.6/.7	.5/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	.1/.2	432	231	127	178	45
19000	.6/.7	.5/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	.1/.2	422	244	134	189	48
20000	.6/.7	.5/.6	.4/.4	.3/.3	.2/.3	.2/.2	.1/.2	.1/.1	415	257	141	196	50

MEDIUM RANGE CANNON 1.0 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1900	1400	1900	1400	1600	1200	300	1300	2300	400	400	1000	700
3000	1900	1400	1900	1400	1600	1200	300	1400	2300	400	400	1000	700
4000	1900	1500	1900	1500	1600	1200	400	1400	2400	400	400	1000	700
5000	1900	1500	1900	1500	1700	1200	400	1500	2500	400	400	1000	700
6000	2000	1500	2000	1500	1700	1200	400	1500	2500	500	500	1100	700
7000	2000	1500	2000	1500	1700	1300	400	1500	2600	500	500	1100	700
8000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
9000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
10000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1100	700
11000	2000	1600	2000	1600	1800	1300	400	1700	2800	500	500	1100	700
12000	2100	1600	2100	1600	1800	1300	500	1700	2900	500	500	1100	700
13000	2100	1600	2100	1600	1800	1400	500	1800	2900	500	500	1100	800
14000	2100	1600	2100	1600	1800	1400	500	1800	3000	500	500	1100	800
15000	2100	1600	2100	1600	1800	1400	500	1800	3000	500	500	1100	800
16000	2100	1700	2100	1700	1800	1400	500	1900	3000	600	500	1100	800
17000	2100	1700	2100	1700	1900	1400	500	1900	3100	600	600	1100	800
18000	2200	1700	2200	1700	1900	1400	500	1900	3100	600	600	1200	800
19000	2200	1700	2200	1700	1900	1500	500	2000	3200	600	600	1200	800
20000	2200	1700	2200	1700	1900	1500	500	2000	3200	600	600	1200	800

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
1.0 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
600	700	800	900	1000	1100	1200	1300						
2000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	602	25	14	49	5
3000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	601	38	21	55	8
4000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	599	51	28	62	10
5000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	597	64	35	73	13
6000	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	595	77	42	80	15
7000	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	592	90	49	90	18
8000	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	590	102	56	97	20
9000	.8/.8	.7/.7	.6/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	586	116	63	108	23
10000	.8/.8	.7/.7	.6/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	583	128	70	115	25
11000	.8/.8	.7/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.3	.2/.2	579	141	77	125	28
12000	.8/.8	.7/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.3	.2/.2	576	154	84	132	30
13000	.8/.8	.7/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	570	167	91	143	33
14000	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	566	180	98	150	35
15000	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	560	193	106	160	38
16000	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	556	205	112	167	40
17000	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	549	219	120	178	43
18000	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	544	231	127	185	45
19000	.7/.8	.6/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	536	244	134	195	48
20000	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	530	257	141	202	50

MEDIUM RANGE CANNON 2.0 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1300	900
3000	2100	1600	2100	1600	1800	1300	400	1700	2900	500	500	1400	900
4000	2100	1600	2100	1600	1800	1300	400	1700	2900	500	500	1400	900
5000	2100	1600	2100	1600	1800	1300	500	1800	3000	600	500	1400	900
6000	2100	1600	2100	1600	1800	1400	500	1800	3100	600	600	1400	900
7000	2100	1700	2100	1600	1800	1400	500	1900	3200	600	600	1400	900
8000	2200	1700	2200	1700	1800	1400	500	1900	3200	600	600	1400	900
9000	2200	1700	2200	1700	1900	1400	500	1900	3300	600	600	1400	900
10000	2200	1700	2200	1700	1900	1400	500	2000	3300	600	600	1400	900
11000	2200	1700	2200	1700	1900	1400	500	2000	3400	600	600	1400	1000
12000	2200	1700	2200	1700	1900	1500	500	2000	3500	600	600	1400	1000
13000	2200	1800	2200	1700	1900	1500	600	2100	3500	600	600	1500	1000
14000	2300	1800	2300	1800	1900	1500	600	2100	3500	700	700	1500	1000
15000	2300	1800	2300	1800	2000	1500	600	2200	3600	700	700	1500	1000
16000	2300	1800	2300	1800	2000	1500	600	2200	3600	700	700	1500	1000
17000	2300	1800	2300	1800	2000	1500	600	2200	3700	700	700	1500	1000
18000	2300	1800	2300	1800	2000	1600	600	2300	3700	700	700	1500	1000
19000	2300	1900	2300	1800	2000	1600	600	2300	3800	700	700	1500	1000
20000	2400	1900	2400	1900	2000	1600	600	2300	3800	700	700	1500	1000

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
2.0 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	600	800	900	1000	1100	1200	1300	1500					
2000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	693	25	14	61	5
3000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	692	38	21	63	8
4000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	691	51	28	70	10
5000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	689	64	35	80	13
6000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	687	77	42	87	15
7000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	685	90	49	98	18
8000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	683	102	56	105	20
9000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	679	116	63	115	23
10000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	677	128	70	122	25
11000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	673	141	77	133	28
12000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	670	154	84	140	30
13000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	665	167	91	150	33
14000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	662	180	98	157	35
15000	.8/.9	.7/.7	.5/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	656	193	106	168	38
16000	.8/.9	.7/.7	.5/.6	.4/.5	.4/.4	.3/.3	.3/.3	.2/.2	652	205	112	175	40
17000	.8/.9	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.3/.3	.2/.2	646	219	120	185	43
18000	.8/.9	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.3/.3	.2/.2	642	231	127	192	45
19000	.8/.9	.6/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	.2/.2	635	244	134	203	48
20000	.8/.8	.6/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	.2/.2	630	257	141	210	50

FREE FLIGHT ROCKET 5.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
5000	3100	2500	2400	1900	2100	1600	700	2500	4300	800	800	2100	1300
6000	3100	2500	2400	1900	2100	1600	700	2600	4400	900	800	2100	1400
7000	3200	2600	2500	1900	2100	1700	700	2700	4500	900	900	2100	1400
8000	3200	2600	2500	2000	2200	1700	700	2800	4700	900	900	2100	1400
9000	3200	2600	2500	2000	2200	1700	800	2800	4700	900	900	2100	1400
10000	3300	2700	2600	2000	2200	1800	800	2900	4800	900	900	2200	1400
11000	3300	2700	2600	2100	2300	1800	800	3000	4900	1000	900	2200	1400
12000	3300	2700	2600	2100	2300	1800	800	3000	5000	1000	1000	2200	1500
13000	3400	2800	2700	2100	2300	1900	800	3100	5100	1000	1000	2200	1500
14000	3400	2800	2700	2200	2400	1900	900	3200	5200	1000	1000	2200	1500
15000	3400	2800	2700	2200	2400	1900	900	3200	5300	1000	1000	2200	1500
16000	3500	2900	2800	2200	2400	2000	900	3300	5300	1100	1000	2200	1500
17000	3500	2900	2800	2300	2500	2000	900	3400	5400	1100	1000	2300	1500
18000	3500	2900	2800	2300	2500	2000	900	3400	5500	1100	1000	2300	1500
19000	3600	3000	2900	2300	2500	2000	900	3500	5500	1100	1000	2300	1600
20000	3600	3000	2900	2400	2600	2100	900	3500	5600	1100	1100	2300	1600
21000	3600	3000	2900	2400	2600	2100	900	3500	5700	1100	1000	2300	1600
22000	3700	3000	3000	2400	2600	2100	900	3600	5700	1100	1000	2300	1600
23000	3700	3100	3000	2400	2600	2200	900	3600	5700	1100	1000	2400	1600
24000	3700	3100	3000	2500	2700	2200	900	3700	5800	1100	1000	2400	1600
25000	3800	3100	3000	2500	2700	2200	900	3700	5800	1100	1000	2400	1600
26000	3800	3200	3100	2500	2700	2200	800	3700	5800	1100	1000	2400	1600
27000	3800	3200	3100	2600	2800	2300	800	3700	5900	1100	1000	2400	1600
28000	3900	3200	3100	2600	2800	2300	800	3800	5900	1100	900	2400	1700
29000	3900	3300	3200	2600	2800	2300	800	3800	5900	1000	900	2400	1700
30000	3900	3300	3200	2700	2900	2400	700	3800	6000	1000	900	2500	1700
31000	4000	3300	3200	2700	2900	2400	700	3800	6000	1000	1000	2500	1700
32000	4000	3400	3300	2700	2900	2400	700	3800	6000	1000	900	2500	1700
33000	4000	3400	3300	2700	2900	2400	700	3900	6000	1000	900	2500	1700
34000	4100	3400	3300	2800	3000	2500	700	3900	6000	900	800	2500	1700
35000	4100	3400	3300	2800	3000	2500	700	3800	6000	900	800	2500	1700
36000	4100	3500	3400	2800	3000	2500	700	3900	6100	900	800	2500	1700
37000	4100	3500	3400	2900	3100	2500	400	3900	6100	800	800	2500	1700
38000	4200	3500	3400	2900	3100	2600	400	3900	6100	800	500	2600	1700
39000	4200	3600	3500	2900	3100	2600	300	3900	6100	800	500	2600	1700
40000	4200	3600	3500	2900	3100	2600	300	3900	6100	800	500	2600	1700

NOTE - Radiation measuring instruments should be used when approaching 700 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET 5.0 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	500	800	1000	1200	1400	1600	1800	2000					
5000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	808	128	70	135	25
6000	.9/.9	.8/.9	.6/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	801	154	84	152	30
7000	.9/.9	.8/.9	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	794	180	98	170	35
8000	.9/.9	.8/.9	.6/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	786	205	112	187	40
9000	.9/.9	.8/.8	.6/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	785	231	127	205	45
10000	.9/.9	.8/.8	.6/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	785	257	141	222	50
11000	.9/.9	.8/.8	.5/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	787	283	155	240	55
12000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.3	.2/.3	.2/.2	.2/.2	781	308	169	257	60
13000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	786	334	183	275	65
14000	.8/.9	.7/.8	.6/.6	.4/.5	.3/.3	.2/.3	.2/.2	.2/.2	782	360	197	292	70
15000	.8/.9	.7/.8	.6/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	787	385	211	310	75
16000	.8/.9	.6/.8	.5/.6	.4/.5	.3/.3	.2/.3	.2/.2	.2/.2	783	411	225	327	80
17000	.7/.9	.6/.7	.4/.6	.3/.5	.3/.3	.2/.3	.2/.2	.1/.2	686	437	239	345	85
18000	.7/.9	.5/.7	.4/.6	.3/.5	.2/.3	.2/.3	.1/.2	.1/.2	649	463	254	362	90
19000	.6/.8	.5/.7	.4/.6	.3/.4	.2/.3	.2/.3	.1/.2	.1/.2	621	488	268	380	95
20000	.6/.8	.5/.7	.3/.6	.3/.4	.2/.3	.1/.2	.1/.2	.1/.2	597	514	282	397	100
21000	.5/.8	.4/.7	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	.1/.2	571	540	296	415	105
22000	.4/.8	.4/.6	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	.1/.1	542	565	310	432	110
23000	.4/.7	.3/.6	.2/.5	.2/.4	.1/.3	.1/.2	.1/.2	.1/.1	510	591	324	450	115
24000	.3/.7	.2/.6	.2/.4	.2/.3	.1/.3	.1/.2	.1/.2	.1/.1	475	617	338	467	120
25000	.3/.7	.2/.5	.2/.4	.1/.3	.1/.3	.1/.2	.1/.1	.0/.1	435	643	352	485	125
26000	.2/.6	.1/.5	.1/.4	.1/.3	.1/.2	.1/.2	.0/.1	.0/.1	389	668	367	502	130
27000	.1/.6	.1/.5	.1/.4	.1/.3	.1/.2	.0/.2	.0/.1	.0/.1	336	694	381	520	135
28000	.0/.5	.1/.5	.1/.4	.1/.3	.0/.2	.0/.2	.0/.1	.0/.1	269	720	395	537	140
29000	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	175	746	409	555	145
30000	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	771	423	572	150
31000	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	0	797	437	590	155
32000	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	823	451	607	160
33000	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	849	465	625	165
34000	.0/.4	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	874	479	642	170
35000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	900	494	660	175
36000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	926	508	677	180
37000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	951	522	695	185
38000	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	977	536	712	190
39000	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	1003	550	730	195
40000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	1029	564	747	200

FREE FLIGHT ROCKET 10.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	4700	3700	2600	2300	2300	1800	800	3300	5600	1100	1100	3000	1900
6000	4700	3700	2700	2300	2300	1800	900	3400	5700	1200	1100	3000	2000
7000	4700	3800	2700	2400	2300	1800	900	3400	5800	1200	1100	3000	2000
8000	4800	3800	2700	2400	2400	1900	900	3500	6000	1200	1100	3100	2000
9000	4800	3800	2800	2400	2400	1900	900	3600	6100	1200	1200	3100	2000
10000	4800	3900	2800	2500	2400	1900	1000	3700	6200	1300	1200	3100	2000
11000	4900	3900	2800	2500	2500	2000	1000	3700	6300	1300	1200	3100	2000
12000	4900	3900	2900	2500	2500	2000	1000	3800	6400	1300	1200	3100	2100
13000	4900	4000	2900	2600	2500	2000	1000	3900	6500	1300	1300	3200	2100
14000	5000	4000	2900	2600	2600	2100	1100	3900	6600	1400	1300	3200	2100
15000	5000	4000	3000	2600	2600	2100	1100	4000	6700	1400	1300	3200	2100
16000	5000	4100	3000	2700	2600	2100	1100	4100	6800	1400	1300	3200	2100
17000	5100	4100	3000	2700	2700	2200	1100	4200	6900	1400	1300	3200	2100
18000	5100	4100	3100	2700	2700	2200	1100	4200	6900	1400	1400	3200	2200
19000	5100	4200	3100	2800	2700	2200	1200	4300	7000	1500	1400	3300	2200
20000	5200	4200	3100	2800	2800	2300	1200	4400	7100	1500	1400	3300	2200
21000	5200	4200	3200	2800	2800	2300	1200	4400	7200	1500	1400	3300	2200
22000	5200	4300	3200	2900	2800	2300	1200	4500	7300	1500	1400	3300	2200
23000	5300	4300	3200	2900	2900	2300	1200	4500	7300	1500	1500	3300	2200
24000	5300	4300	3300	2900	2900	2400	1200	4600	7400	1500	1500	3300	2200
25000	5300	4400	3300	3000	2900	2400	1200	4600	7500	1600	1500	3400	2300
26000	5400	4400	3300	3000	2900	2400	1200	4700	7500	1600	1500	3400	2300
27000	5400	4400	3300	3000	3000	2500	1200	4700	7600	1600	1500	3400	2300
28000	5400	4500	3400	3000	3000	2500	1200	4800	7600	1600	1500	3400	2300
29000	5500	4500	3400	3100	3000	2500	1200	4800	7700	1600	1500	3400	2300
30000	5500	4500	3400	3100	3100	2500	1300	4800	7700	1600	1500	3400	2300
31000	5500	4600	3500	3100	3100	2600	1200	4900	7800	1600	1500	3400	2300
32000	5600	4600	3500	3200	3100	2600	1200	4900	7800	1600	1500	3500	2300
33000	5600	4600	3500	3200	3200	2600	1200	5000	7800	1600	1500	3500	2400
34000	5600	4600	3600	3200	3200	2700	1200	5000	7900	1600	1500	3500	2400
35000	5700	4700	3600	3300	3200	2700	1300	5000	7900	1600	1500	3500	2400
36000	5700	4700	3600	3300	3200	2700	1100	5000	7900	1600	1500	3500	2400
37000	5700	4700	3700	3300	3300	2700	1100	5100	8000	1600	1500	3500	2400
38000	5800	4800	3700	3300	3300	2800	1200	5100	8000	1600	1400	3500	2400
39000	5800	4800	3700	3400	3300	2800	1200	5100	8000	1600	1400	3600	2400
40000	5800	4800	3700	3400	3400	2800	1200	5100	8000	1600	1400	3600	2400

NOTE - Radiation measuring instruments should be used when approaching 700 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET 10.0 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB.	CD 90	CEP	HOB	PEH
									MIN. RD				
	800	1000	1200	1400	1600	1800	2000	2200					
5000	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	965	128	70	152	25
6000	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	971	154	84	169	30
7000	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	977	180	98	187	35
8000	.9/.9	.8/.9	.7/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	983	205	112	204	40
9000	.9/.9	.8/.9	.7/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.2	989	231	127	222	45
10000	.9/.9	.8/.9	.7/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.2	995	257	141	239	50
11000	.9/.9	.8/.9	.7/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	1001	283	155	257	55
12000	.9/.9	.8/.9	.7/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	1007	308	169	274	60
13000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	1013	334	183	292	65
14000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	1019	360	197	309	70
15000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	1025	385	211	327	75
16000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	1031	411	225	344	80
17000	.9/.9	.8/.9	.7/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.3	1037	437	239	362	85
18000	.9/.9	.8/.9	.7/.8	.5/.7	.4/.5	.3/.4	.3/.4	.2/.3	1043	463	254	379	90
19000	.9/.9	.8/.9	.7/.8	.5/.7	.4/.5	.4/.4	.3/.4	.2/.3	1049	488	268	397	95
20000	.9/.9	.8/.9	.6/.8	.5/.7	.4/.6	.3/.4	.3/.4	.2/.3	1020	514	282	414	100
21000	.8/.9	.7/.9	.6/.8	.5/.7	.4/.5	.3/.5	.3/.4	.2/.3	1025	540	296	432	105
22000	.8/.9	.7/.9	.6/.8	.5/.7	.4/.6	.3/.4	.3/.4	.2/.3	1029	566	310	449	110
23000	.8/.9	.7/.8	.6/.8	.5/.7	.4/.5	.3/.4	.2/.4	.2/.3	962	591	324	467	115
24000	.8/.9	.7/.8	.6/.7	.4/.7	.4/.5	.3/.5	.2/.4	.2/.3	962	617	338	484	120
25000	.7/.9	.6/.8	.5/.7	.4/.6	.4/.5	.3/.4	.2/.4	.2/.3	962	643	352	502	125
26000	.7/.9	.6/.8	.4/.7	.4/.6	.3/.5	.3/.4	.2/.3	.2/.3	900	668	367	519	130
27000	.6/.9	.5/.8	.4/.7	.4/.6	.3/.5	.2/.4	.2/.3	.2/.3	856	694	381	537	135
28000	.5/.8	.4/.7	.3/.7	.3/.6	.3/.5	.2/.4	.2/.3	.1/.3	796	720	395	554	140
29000	.5/.8	.4/.7	.3/.6	.3/.6	.2/.5	.2/.4	.1/.3	.1/.3	742	746	409	572	145
30000	.4/.8	.3/.7	.3/.6	.2/.6	.2/.5	.2/.4	.1/.3	.1/.3	685	771	423	589	150
31000	.3/.7	.2/.7	.2/.6	.2/.5	.2/.4	.1/.4	.1/.3	.1/.2	626	797	437	607	155
32000	.2/.7	.2/.7	.2/.6	.2/.5	.1/.4	.1/.4	.1/.3	.1/.2	568	823	451	624	160
33000	.1/.7	.2/.6	.2/.6	.1/.5	.1/.4	.1/.3	.1/.3	.1/.2	509	849	465	642	165
34000	.1/.7	.1/.6	.1/.5	.1/.5	.1/.4	.1/.3	.1/.3	.0/.2	447	874	479	659	170
35000	.1/.7	.1/.6	.1/.5	.1/.5	.1/.4	.0/.3	.0/.3	.0/.2	379	900	494	677	175
36000	.0/.6	.1/.5	.1/.5	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	307	926	508	694	180
37000	.0/.6	.0/.5	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	231	951	522	712	185
38000	.0/.6	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	150	977	536	729	190
39000	.0/.5	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	66	1003	550	747	195
40000	.0/.5	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	0	1029	564	764	200

FREE FLIGHT ROCKET 50.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	10400	7800	5400	4500	3200	2800	1500	5500	9500	2300	2000	6300	4000
6000	10500	7900	5400	4600	3300	2800	1500	5600	9600	2300	2100	6300	4000
7000	10500	8000	5500	4700	3300	2900	1500	5700	9800	2300	2100	6400	4100
8000	10600	8000	5500	4700	3400	2900	1600	5800	9900	2400	2100	6400	4100
9000	10600	8000	5600	4800	3400	2900	1600	5900	10100	2400	2100	6500	4100
10000	10600	8100	5600	4800	3500	3000	1600	6000	10200	2400	2200	6500	4100
11000	10700	8100	5700	4800	3500	3000	1700	6100	10300	2500	2200	6500	4200
12000	10700	8200	5700	4900	3500	3100	1700	6100	10500	2500	2200	6500	4200
13000	10800	8200	5700	4900	3600	3100	1700	6200	10600	2500	2200	6600	4200
14000	10800	8200	5800	4900	3600	3100	1700	6300	10700	2500	2300	6600	4200
15000	10800	8300	5800	5000	3600	3200	1800	6400	10900	2600	2300	6600	4300
16000	10900	8300	5800	5000	3700	3200	1800	6400	11000	2600	2300	6600	4300
17000	10900	8300	5900	5000	3700	3200	1800	6500	11100	2600	2300	6600	4300
18000	10900	8400	5900	5100	3700	3300	1800	6600	11200	2600	2400	6700	4300
19000	11000	8400	5900	5100	3800	3300	1900	6700	11300	2700	2400	6700	4300
20000	11000	8400	6000	5100	3800	3300	1900	6700	11400	2700	2400	6700	4300
21000	11000	8500	6000	5200	3800	3300	1900	6800	11500	2700	2400	6700	4400
22000	11100	8500	6000	5200	3900	3400	1900	6900	11600	2700	2500	6700	4400
23000	11100	8500	6100	5200	3900	3400	2000	6900	11700	2800	2500	6800	4400
24000	11100	8600	6100	5300	3900	3400	2000	7000	11800	2800	2500	6800	4400
25000	11200	8600	6100	5300	4000	3500	2000	7100	11900	2800	2500	6800	4400
26000	11200	8600	6200	5300	4000	3500	2000	7200	12000	2800	2500	6800	4400
27000	11200	8700	6200	5400	4000	3500	2100	7200	12100	2900	2600	6800	4500
28000	11300	8700	6200	5400	4100	3600	2100	7300	12200	2900	2600	6800	4500
29000	11300	8700	6300	5400	4100	3600	2100	7400	12200	2900	2600	6900	4500
30000	11400	8800	6300	5500	4100	3600	2100	7500	12300	2900	2600	6900	4500
31000	11400	8800	6300	5500	4200	3700	2100	7500	12400	3000	2600	6900	4500
32000	11400	8800	6400	5500	4200	3700	2200	7600	12500	3000	2700	6900	4500
33000	11500	8900	6400	5600	4200	3700	2200	7700	12600	3000	2700	6900	4600
34000	11500	8900	6400	5600	4300	3700	2200	7700	12700	3000	2700	6900	4600
35000	11500	8900	6500	5600	4300	3800	2200	7800	12800	3000	2700	7000	4600
36000	11600	9000	6500	5700	4300	3800	2200	7900	12800	3100	2700	7000	4600
37000	11600	9000	6500	5700	4400	3800	2300	7900	12900	3100	2700	7000	4600
38000	11600	9000	6600	5700	4400	3900	2300	8000	13000	3100	2700	7000	4600
39000	11700	9100	6600	5800	4400	3900	2300	8000	13100	3100	2700	7000	4600
40000	11700	9100	6600	5800	4500	3900	2300	8100	13100	3100	2800	7000	4700

NOTE - Radiation measuring instruments should be used when approaching 1,000 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET
50.0 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	2000	2400	2800	3200	3600	4000	4400	4800					
5000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	2079	128	70	207	25
6000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	2085	154	84	222	30
7000	.9/.9	.7/.8	.6/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	2094	180	98	239	35
8000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2104	205	112	257	40
9000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2113	231	127	274	45
10000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2122	257	141	292	50
11000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2131	283	155	309	55
12000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2140	308	169	327	60
13000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2149	334	183	344	65
14000	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2158	360	197	362	70
15000	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2167	385	211	379	75
16000	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.2	2176	411	225	397	80
17000	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	2184	437	239	414	85
18000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.3	2193	463	254	432	90
19000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.3	2202	488	268	449	95
20000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2211	514	282	467	100
21000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2220	540	296	484	105
22000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2229	566	310	502	110
23000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2237	591	324	519	115
24000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2246	617	338	537	120
25000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2255	643	352	554	125
26000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2264	668	367	572	130
27000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2272	694	381	589	135
28000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2281	720	395	607	140
29000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2290	746	409	624	145
30000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2298	771	423	642	150
31000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2307	797	437	659	155
32000	.9/.9	.8/.8	.6/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2316	823	451	677	160
33000	.9/.9	.8/.8	.6/.8	.5/.6	.4/.5	.4/.4	.3/.4	.2/.3	2324	849	465	694	165
34000	.9/.9	.8/.8	.6/.8	.5/.6	.4/.5	.4/.4	.3/.4	.2/.3	2333	874	479	712	170
35000	.9/.9	.8/.8	.7/.8	.5/.6	.4/.5	.4/.4	.3/.4	.2/.3	2341	900	494	729	175
36000	.9/.9	.8/.8	.7/.8	.5/.6	.4/.5	.4/.4	.3/.4	.2/.3	2350	926	508	747	180
37000	.9/.9	.8/.8	.7/.8	.5/.7	.4/.5	.4/.4	.3/.4	.3/.3	2358	951	522	764	185
38000	.8/.9	.8/.8	.7/.8	.5/.7	.4/.5	.4/.4	.3/.4	.3/.3	2367	977	536	782	190
39000	.8/.9	.7/.8	.6/.8	.5/.6	.4/.5	.3/.4	.3/.4	.2/.3	2280	1003	550	799	195
40000	.8/.9	.7/.8	.6/.8	.5/.6	.4/.5	.3/.4	.3/.4	.2/.3	2286	1029	564	817	200

FREE FLIGHT ROCKET 100.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	14400	10600	7300	6100	4400	3700	1900	7200	12400	3000	2700	8600	5500
6000	14500	10700	7300	6100	4400	3700	2000	7300	12500	3100	2700	8700	5500
7000	14500	10700	7300	6200	4400	3800	2000	7400	12700	3100	2800	8700	5500
8000	14600	10800	7400	6200	4500	3800	2000	7500	12800	3100	2800	8700	5500
9000	14600	10800	7400	6300	4500	3800	2000	7600	13000	3200	2800	8700	5500
10000	14600	10800	7400	6300	4500	3900	2100	7700	13100	3200	2800	8800	5600
11000	14700	10900	7500	6300	4600	3900	2100	7700	13200	3200	2900	8800	5600
12000	14700	10900	7500	6400	4600	3900	2100	7800	13400	3200	2900	8800	5600
13000	14700	10900	7500	6400	4600	4000	2100	7900	13500	3300	2900	8800	5600
14000	14800	11000	7600	6400	4700	4000	2200	8000	13600	3300	2900	8800	5600
15000	14800	11000	7600	6500	4700	4000	2200	8000	13800	3300	3000	8800	5700
16000	14800	11000	7600	6500	4700	4100	2200	8100	13900	3300	3000	8900	5700
17000	14900	11100	7700	6500	4800	4100	2300	8200	14000	3400	3000	8900	5700
18000	14900	11100	7700	6600	4800	4100	2300	8200	14100	3400	3000	8900	5700
19000	14900	11100	7700	6600	4800	4200	2300	8300	14200	3400	3100	8900	5700
20000	15000	11200	7800	6600	4900	4200	2300	8400	14300	3500	3100	8900	5700
21000	15000	11200	7800	6700	4900	4200	2400	8500	14400	3500	3100	9000	5800
22000	15000	11200	7800	6700	4900	4300	2400	8500	14500	3500	3100	9000	5800
23000	15100	11300	7900	6700	5000	4300	2400	8600	14600	3500	3100	9000	5800
24000	15100	11300	7900	6800	5000	4300	2400	8700	14700	3600	3200	9000	5800
25000	15100	11300	7900	6800	5000	4300	2400	8800	14800	3600	3200	9000	5800
26000	15200	11400	8000	6800	5100	4400	2500	8800	14900	3600	3200	9000	5800
27000	15200	11400	8000	6900	5100	4400	2500	8900	14900	3600	3200	9100	5900
28000	15200	11400	8000	6900	5100	4400	2500	9000	15000	3700	3300	9100	5900
29000	15300	11500	8100	6900	5200	4500	2500	9000	15100	3700	3300	9100	5900
30000	15300	11500	8100	7000	5200	4500	2600	9100	15200	3700	3300	9100	5900
31000	15300	11500	8100	7000	5200	4500	2600	9200	15300	3700	3300	9100	5900
32000	15400	11600	8200	7000	5300	4600	2600	9300	15400	3700	3400	9100	5900
33000	15400	11600	8200	7100	5300	4600	2600	9300	15500	3800	3400	9200	6000
34000	15500	11600	8200	7100	5300	4600	2700	9400	15600	3800	3400	9200	6000
35000	15500	11700	8300	7100	5400	4700	2700	9500	15700	3800	3400	9200	6000
36000	15500	11700	8300	7100	5400	4700	2700	9500	15700	3800	3400	9200	6000
37000	15600	11700	8300	7200	5400	4700	2700	9600	15800	3900	3500	9200	6000
38000	15600	11800	8400	7200	5400	4700	2700	9700	15900	3900	3500	9200	6000
39000	15600	11800	8400	7200	5500	4800	2800	9700	16000	3900	3500	9300	6100
40000	15700	11800	8400	7300	5500	4800	2800	9800	16100	3900	3500	9300	6100

NOTE - Radiation measuring instruments should be used when approaching 1,000 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET
100.0 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	3000	3600	4200	4800	5400	6000	6600	7200					
5000	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	2949	128	70	358	25
6000	.9/.9	.7/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	2959	154	84	376	30
7000	.9/.9	.7/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	2969	180	98	393	35
8000	.9/.9	.7/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	2979	205	112	411	40
9000	.9/.9	.7/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	2990	231	127	428	45
10000	.9/.9	.7/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	3000	257	141	445	50
11000	.9/.9	.7/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	3010	283	155	463	55
12000	.9/.9	.7/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	3020	308	169	481	60
13000	.9/.9	.7/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	3030	334	183	498	65
14000	.9/.9	.7/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	3040	360	197	516	70
15000	.9/.9	.7/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	3050	385	211	533	75
16000	.9/.9	.7/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	3060	411	225	551	80
17000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	3070	437	239	568	85
18000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	3080	463	254	586	90
19000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	3090	488	268	603	95
20000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	3099	514	282	621	100
21000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	3109	540	296	638	105
22000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	3119	566	310	656	110
23000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	3129	591	324	673	115
24000	.9/.9	.7/.8	.6/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	3139	617	338	691	120
25000	.9/.9	.7/.8	.5/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	3148	643	352	708	125
26000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	3158	668	367	725	130
27000	.9/.9	.7/.8	.5/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	3168	694	381	743	135
28000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	3177	720	395	761	140
29000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	3187	746	409	778	145
30000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	3197	771	423	796	150
31000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	3206	797	437	813	155
32000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	3216	823	451	831	160
33000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.4	.2/.3	.2/.2	3225	849	465	848	165
34000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	3235	874	479	866	170
35000	.9/.9	.7/.8	.6/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.3	3244	900	494	883	175
36000	.9/.9	.7/.8	.6/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.3	3253	926	508	901	180
37000	.9/.9	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	3263	951	522	918	185
38000	.9/.9	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	3272	977	536	936	190
39000	.9/.9	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	3281	1003	550	953	195
40000	.9/.9	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	3291	1029	564	971	200

LIGHT GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2 KT	2200	1700	2200	1700	1900	1500	500	2100	3500	600	600	1400	1000
5 KT	3100	2500	2400	1900	2100	1600	700	2600	4400	800	800	2100	1400
10 KT	4700	3700	2700	2300	2300	1800	900	3400	5700	1200	1100	3000	1900
20 KT	6900	5400	3700	3200	2500	2000	1100	4300	7300	1600	1500	4300	2800

NOTE - Radiation measuring instruments should be used when approaching 400-700 meters of ground zero because of induced contamination of the soil.

LIGHT GUIDED MISSILE

PROMPT CASUALTIES TO EXPOSED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									PROB. MIN. RD	ACCURACY DATA			
YIELD	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
2 KT	500	600	800	900	1000	1200	1400	1600	669	182	100	143	30
	.9/.9	.9/.9	.7/.7	.6/.6	.5/.5	.3/.3	.2/.2	.2/.2					
5 KT	600	800	1000	1200	1400	1600	1800	2000	800	182	100	157	30
	.9/.9	.8/.9	.6/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2					
10 KT	800	1000	1200	1400	1600	1800	2000	2200	971	182	100	170	30
	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2					
20 KT	1200	1600	1800	2000	2200	2400	2600	3000	1415	182	100	187	30
	.9/.9	.7/.9	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.3					

Range span 10,000 - 50,000 meters

MEDIUM GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
10 KT	5500	4500	3500	3100	3100	2600	1300	3900	6400	1600	1500	3500	2400
20 KT	7700	6200	4500	4000	3300	2800	1600	4900	8100	2100	1900	4800	3200
50 KT	11300	8700	6200	5400	4100	3600	2000	6200	10400	2800	2500	6800	4500
100 KT	15100	11300	8000	6800	5100	4500	2300	7500	12600	3400	3100	9000	5800
200 KT	20700	15000	10500	8900	6600	5700	2900	9600	16300	4500	4000	12100	7800

NOTE - Radiation measuring instruments should be used when approaching 700-1,000 meters of ground zero because of induced contamination of the soil.

MEDIUM GUIDED MISSILE

PROMPT CASUALTIES TO EXPOSED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
10 KT	600	800	1000	1200	1400	1600	1800	2000	995	911	500	240	50
	.6/.8	.5/.8	.5/.7	.4/.6	.4/.5	.4/.4	.3/.3	.2/.3					
20 KT	800	1200	1600	2000	2400	2800	3200	3600	1444	911	500	257	50
	.8/.9	.7/.8	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2					
50 KT	1600	2200	1600	3000	3400	3800	4200	4600	2115	911	500	286	50
	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2					
100 KT	2000	2600	3200	3800	4600	5400	6000	6600	2846	911	500	315	50
	.9/.9	.8/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2					
200 KT	3200	4000	4800	5600	6400	7200	8000	8800	4085	911	500	502	50
	.9/.9	.8/.9	.7/.7	.6/.6	.4/.4	.3/.4	.3/.3	.2/.2					

Range span 50,000 - 150,000 meters

HEAVY GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN DECIDUOUS	CONIFEROUS	FIRES DRY FUEL GREEN FUEL	
	NEG	EMER	NEG	EMER	NEG	EMER							
200 KT	21800	16100	11500	9900	7600	6700	3500	10700	17800	5100	4600	12700	8300
500 KT	32400	22800	16100	13700	10300	8900	4400	13800	23100	6800	5800	18300	11900
1000 KT	44200	30000	20900	17800	13200	11300	5200	16800	28200	8500	7000	24400	15700
2000 KT	48900	32800	22900	19400	14300	12300	5600	18200	30700	9200	7600	26800	17200
5000 KT	67000	43100	30200	25600	18700	15900	6800	22500	38100	11500	9500	35900	22900

NOTE - Radiation measuring instruments should be used when approaching 1,000-1,400 meters of ground zero because of induced contamination of the soil.

HEAVY GUIDED MISSILE

PROMPT CASUALTIES TO EXPOSED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
200 KT	4000	6000	8000	9000	10000	11000	12000	14000	4200	1822	1000	677	100
	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	.2/.2	.1/.1	.1/.1					
500 KT	6000	8000	10000	12000	14000	16000	18000	20000	6255	1822	1000	795	100
	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1					
1000 KT	8000	12000	16000	18000	20000	22000	24000	28000	8408	1822	1000	910	100
	.9/.9	.5/.5	.3/.3	.2/.2	.2/.2	.2/.2	.1/.1	.1/.1					
2000 KT	8000	12000	16000	18000	20000	24000	28000	32000	9425	1822	1000	1056	100
	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1					
5000 KT	10000	16000	20000	24000	28000	32000	35000	42000	12747	1822	1000	1308	100
	.9/.9	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1					

Range span 50,000 - 300,000 meters

AIRCRAFT DELIVERED WEAPONS

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5 KT	3400	2800	2700	2200	2400	1900	900	3000	4900	1000	1000	2200	1500
10 KT	5000	4000	3000	2600	2600	2100	1100	3700	6200	1300	1300	3200	2100
20 KT	1200	5700	4100	3500	2800	2300	1200	4700	7900	1800	1600	4500	2900
50 KT	10800	8200	5800	4900	3600	3100	1700	6000	10200	2500	2200	6600	4200
100 KT	14700	10900	7500	6400	4600	4000	2100	7300	12500	3200	2900	8700	5600
200 KT	20300	14600	10000	8400	6100	5200	2600	9400	16100	4200	3700	11800	7500
500 KT	30800	21200	14500	12100	8800	7400	3500	12500	21300	5800	4900	17400	11000
1000 KT	42400	28300	19200	16100	11600	9700	4300	15400	26400	7500	6200	23400	14800
2000 KT	47500	31300	21400	17900	12900	10800	4800	17600	30200	8400	6800	26000	16400
5000 KT	65500	41600	28700	24100	17200	14400	6000	21900	37700	10700	8700	35100	22100

NOTE - Radiation measuring instruments should be used when approaching 400-1,400 meters of ground zero because of induced contamination of the soil.

AIRCRAFT DELIVERED WEAPONS

PROMPT CASUALTIES TO EXPOSED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
5 KT	400	600	800	1000	1200	1400	1600	1800	782	455	250	227	50
	.9/.9	.8/.9	.6/.8	.5/.6	.4/.5	.3/.3	.2/.3	.2/.2					
10 KT	600	1000	1200	1400	1600	1800	2000	2400	995	455	250	240	50
	.9/.9	.7/.8	.6/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.2					
20 KT	1200	1600	2000	2200	2400	2800	3200	3400	1444	455	250	257	50
	.9/.9	.7/.8	.5/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2					
50 KT	2000	2400	2800	3200	3600	4000	4400	4800	2115	455	250	286	50
	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2					
100 KT	2000	2800	3600	4400	5200	6000	6800	7600	2846	455	250	315	50
	.9/.9	.9/.9	.6/.7	.4/.5	.3/.3	.2/.3	.2/.2	.1/.2					
200 KT	4000	6000	8000	9000	10000	11000	12000	14000	4085	455	250	502	50
	.9/.9	.5/.5	.3/.3	.2/.2	.2/.2	.1/.2	.1/.1	.1/.1					
500 KT	6000	8000	10000	12000	14000	16000	18000	20000	6119	455	250	620	50
	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1					
1000 KT	9000	13000	17000	21000	25000	29000	33000	37000	8256	455	250	735	50
	.8/.8	.4/.4	.2/.3	.2/.2	.1/.1	.1/.1	.1/.1	.1/.1					
2000 KT	9000	13000	17000	21000	25000	29000	33000	37000	9425	455	250	1056	100
	.9/.9	.5/.6	.3/.4	.2/.2	.1/.2	.1/.1	.1/.1	.1/.1					
5000 KT	10000	16000	20000	24000	28000	32000	36000	42000	12747	455	250	1308	100
	.9/.9	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.2	.1/.1					

CHAPTER 5
 COVERAGE TABLES FOR
 DELAYED CASUALTIES TO EXPOSED PERSONNEL

	Page
Short Range Cannon 0.5 KT.....	57
1.0 KT.....	59
Medium Range Cannon 0.5 KT.....	61
1.0 KT.....	63
2.0 KT.....	65
Free Flight Rocket 5.0 KT.....	67
10.0 KT.....	69
50.0 KT.....	71
100.0 KT.....	73
Light Guided Missile 2, 5, 10, and 20 KT	75
Medium Guided Missile 10, 20, 50, 100, and 200 KT	77
Heavy Guided Missile 200, 500, 1,000, 2,000, and 5,000 KT	79
Aircraft Delivered Weapons 5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, and 5,000 KT	81

TABLES OF MAXIMUM TARGET RADIUS (.3 Probable Minimum Coverage)

(Distances in Meters)

LOW AIRBURST

DELAYED CASUALTIES TO EXPOSED PERSONNEL

Range	Short Range Cannon		Medium Range Cannon			Free Flight Rocket			
	.5	1	.5	1	2	5	10	50	100
2000	1400	1600	1400	1600	1800				
3000	1400	1600	1400	1600	1800				
4000	1400	1600	1400	1600	1800				
5000	1400	1600	1400	1600	1800	2000	2400	4000	6000
6000	1400	1600	1400	1600	1800	2000	2400	4000	6000
7000	1400	1600	1400	1600	1800	2000	2400	4000	6000
8000	1400	1600	1400	1600	1800	2000	2400	4000	6000
9000	1200	1600	1200	1600	1800	2000	2400	4000	6000
10000	1200	1600	1200	1600	1800	2000	2200	4000	6000
12000			1200	1600	1800	2000	2200	4000	6000
14000			1200	1600	1800	2000	2200	4400	6000
16000			1200	1400	1800	1800	2200	4400	6000
18000			1200	1400	1600	1800	2200	4400	6000
20000			1200	1400	1600	1600	2200	4400	6000
22000						1600	2200	4400	6000
24000						1600	2200	4400	6000
26000						1400	1800	4400	6000
28000						1200	1600	4400	6000
30000						1000	1600	4400	6500
32000						800	1400	4400	6500
34000							1200	4400	6500
36000							800	4400	6500
38000								4800	6500
40000								4400	6500

Light Guided Missile			
2	5	10	20
1800	2000	2400	2800

Medium Guided Missile				
10	20	50	100	200
2200	2800	4000	5600	8000

Heavy Guided Missile				
200	500	1000	2000	5000
8000	12000	16000	18000	24000

Aircraft Delivered Weapons									
5	10	20	50	100	200	500	1000	2000	5000
2000	2200	2800	4000	5300	8000	12000	16000	18000	24000

NOTE: Blank spaces indicate either the target is out of range or a probable minimum coverage of .3 cannot be obtained.

SHORT RANGE CANNON 0.5 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1700	1300	1700	1300	1400	1000	300	1000	1800	300	300	700	500
3000	1700	1300	1700	1300	1500	1100	300	1100	1800	300	300	700	500
4000	1800	1300	1800	1300	1500	1100	300	1100	1900	300	300	700	500
5000	1800	1300	1800	1300	1500	1100	300	1200	2000	300	300	800	500
6000	1800	1300	1800	1300	1500	1100	300	1200	2000	400	400	800	500
7000	1800	1300	1800	1300	1500	1100	300	1300	2100	400	400	800	500
8000	1800	1400	1800	1400	1500	1100	300	1300	2100	400	400	800	500
9000	1800	1400	1800	1400	1600	1200	300	1300	2200	400	400	800	500
10000	1900	1400	1900	1400	1600	1200	400	1400	2200	400	400	800	500

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

SHORT RANGE CANNON
0.5 KT

DELAYED CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	600	800	1000	1200	1400	1600	1800	2000					
2000	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	696	25	14	38	5
3000	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.1	695	38	21	49	8
4000	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.1	694	51	28	56	10
5000	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.1	692	64	35	65	13
6000	.9/.9	.7/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	691	77	42	73	15
7000	.9/.9	.7/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	688	90	49	84	18
8000	.9/.9	.7/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	687	102	56	91	20
9000	.9/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.2/.2	.1/.1	684	116	63	101	23
10000	.5/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	.1/.1	681	128	70	108	25

SHORT RANGE CANNON 1.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1500	1400	1900	1400	1600	1200	300	1300	2300	400	400	1000	700
3000	1900	1400	1900	1400	1600	1200	300	1400	2300	400	400	1000	700
4000	1900	1500	1900	1500	1600	1200	400	1400	2400	400	400	1000	700
5000	1900	1500	1900	1500	1700	1200	400	1500	2500	400	400	1000	700
6000	2000	1500	2000	1500	1700	1200	400	1500	2500	500	500	1100	700
7000	2000	1500	2000	1500	1700	1300	400	1500	2600	500	500	1100	700
8000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
9000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
10000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1100	700

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

SHORT RANGE CANNON
1.0 KT

DELAYED CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
RANGE	RADIUS OF TARGET								PROB.				
									MIN.	CD 90	CEP	HOB	PEH
	800	1000	1200	1400	1600	1800	2000	2200	RD				
2000	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	813	25	14	49	5
3000	.5/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	812	38	21	55	8
4000	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.1	811	51	28	62	10
5000	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.1	810	64	35	73	13
6000	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.1	808	77	42	80	15
7000	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.1	806	90	49	90	18
8000	.9/.9	.7/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	804	102	56	97	20
9000	.8/.9	.6/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	802	116	63	108	23
10000	.8/.9	.6/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	800	128	70	115	25

MEDIUM RANGE CANNON
0.5 KT.

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1700	1300	1700	1300	1400	1000	300	1000	1800	300	300	700	500
3000	1700	1300	1700	1300	1500	1100	300	1100	1800	300	300	700	500
4000	1800	1300	1800	1300	1500	1100	300	1100	1900	300	300	700	500
5000	1800	1300	1800	1300	1500	1100	300	1200	2000	300	300	800	500
6000	1800	1300	1800	1300	1500	1100	300	1200	2000	400	400	800	500
7000	1800	1300	1800	1300	1500	1100	300	1300	2100	400	400	800	500
8000	1800	1400	1800	1400	1500	1100	300	1300	2100	400	400	800	500
9000	1800	1400	1800	1400	1600	1200	300	1300	2200	400	400	800	500
10000	1900	1400	1900	1400	1600	1200	400	1400	2200	400	400	800	500
11000	1900	1400	1900	1400	1600	1200	400	1400	2300	400	400	800	600
12000	1900	1400	1900	1400	1600	1200	400	1400	2300	400	400	800	600
13000	1900	1400	1900	1400	1600	1200	400	1500	2400	400	400	800	600
14000	1900	1500	1900	1500	1600	1200	400	1500	2400	400	400	800	600
15000	1900	1500	1900	1500	1700	1300	400	1500	2400	400	400	800	600
16000	2000	1500	2000	1500	1700	1300	400	1500	2500	400	400	800	600
17000	2000	1500	2000	1500	1700	1300	400	1600	2500	400	400	900	600
18000	2000	1500	2000	1500	1700	1300	400	1600	2500	400	400	900	600
19000	2000	1500	2000	1500	1700	1300	300	1600	2500	400	400	900	600
20000	2000	1600	2000	1600	1700	1300	300	1600	2600	400	400	900	600

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
0.5 KT

DELAYED CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	400	600	800	1000	1200	1400	1600	1800					
2000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	696	25	14	38	5
3000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	695	38	21	49	8
4000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	694	51	28	56	10
5000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	692	64	35	66	13
6000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	691	77	42	73	15
7000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	688	90	49	84	18
8000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	687	102	56	91	20
9000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.2/.2	684	116	63	101	23
10000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	681	128	70	108	25
11000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	678	141	77	119	28
12000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	675	154	84	126	30
13000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.2	670	167	91	136	33
14000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.2	667	180	98	143	35
15000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.2	662	193	106	154	38
16000	.9/.9	.8/.9	.7/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	659	205	112	161	40
17000	.9/.9	.8/.9	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	653	219	120	171	43
18000	.9/.9	.8/.9	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	649	231	127	178	45
19000	.9/.9	.8/.9	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	642	244	134	189	48
20000	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	638	257	141	196	50

MEDIUM RANGE CANNON 1.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1900	1400	1900	1400	1600	1200	300	1300	2300	400	400	1000	700
3000	1900	1400	1900	1400	1600	1200	300	1400	2300	400	400	1000	700
4000	1900	1500	1900	1500	1600	1200	400	1400	2400	400	400	1000	700
5000	1900	1500	1900	1500	1700	1200	400	1500	2500	400	400	1000	700
6000	2000	1500	2000	1500	1700	1200	400	1500	2500	500	500	1100	700
7000	2000	1500	2000	1500	1700	1300	400	1500	2600	500	500	1100	700
8000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
9000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
10000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1100	700
11000	2000	1600	2000	1600	1800	1300	400	1700	2800	500	500	1100	700
12000	2100	1600	2100	1600	1800	1300	500	1700	2900	500	500	1100	700
13000	2100	1600	2100	1600	1800	1400	500	1800	2900	500	500	1100	800
14000	2100	1600	2100	1600	1800	1400	500	1800	3000	500	500	1100	800
15000	2100	1600	2100	1600	1800	1400	500	1800	3000	500	500	1100	800
16000	2100	1700	2100	1700	1800	1400	500	1900	3000	600	500	1100	800
17000	2100	1700	2100	1700	1900	1400	500	1900	3100	600	600	1100	800
18000	2200	1700	2200	1700	1900	1400	500	1900	3100	600	600	1200	800
19000	2200	1700	2200	1700	1900	1500	500	2000	3200	600	600	1200	800
20000	2200	1700	2200	1700	1900	1500	500	2000	3200	600	600	1200	800

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
1.0 KT

DELAYED CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	900	1000	1200	1400	1600	1800	2000	2200					
2000	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	813	25	14	49	5
3000	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	812	38	21	55	8
4000	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.1	811	51	28	62	10
5000	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.1	810	54	35	73	13
6000	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.1	808	77	42	80	15
7000	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.1	806	90	49	90	18
8000	.9/.9	.7/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	804	102	56	97	20
9000	.8/.9	.6/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	802	116	63	109	23
10000	.8/.9	.6/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	800	123	70	115	25
11000	.8/.9	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	796	141	77	125	28
12000	.8/.9	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	794	154	84	132	30
13000	.8/.9	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	790	167	91	143	33
14000	.8/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	787	180	98	150	35
15000	.8/.8	.6/.6	.4/.5	.3/.3	.2/.3	.2/.2	.2/.2	.1/.1	783	193	106	160	38
16000	.8/.8	.5/.6	.4/.5	.3/.3	.2/.3	.2/.2	.2/.2	.1/.1	780	205	112	167	40
17000	.8/.8	.6/.6	.4/.5	.3/.3	.2/.3	.2/.2	.2/.2	.1/.1	775	219	120	179	43
18000	.8/.8	.6/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	.1/.1	771	231	127	185	45
19000	.8/.8	.6/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	.1/.1	766	244	134	195	48
20000	.8/.8	.5/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	.1/.1	762	257	141	202	50

MEDIUM RANGE CANNON 2.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
2000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1300	900
3000	2100	1600	2100	1600	1800	1300	400	1700	2900	500	500	1400	900
4000	2100	1600	2100	1600	1800	1300	400	1700	2900	500	500	1400	900
5000	2100	1600	2100	1600	1800	1300	500	1800	3000	600	500	1400	900
6000	2100	1600	2100	1600	1800	1400	500	1800	3100	600	600	1400	900
7000	2100	1700	2100	1600	1800	1400	500	1900	3200	600	600	1400	900
8000	2200	1700	2200	1700	1800	1400	500	1900	3200	600	600	1400	900
9000	2200	1700	2200	1700	1900	1400	500	1900	3300	600	600	1400	900
10000	2200	1700	2200	1700	1900	1400	500	2000	3300	600	600	1400	900
11000	2200	1700	2200	1700	1900	1400	500	2000	3400	600	600	1400	1000
12000	2200	1700	2200	1700	1900	1500	500	2000	3500	600	600	1400	1000
13000	2200	1800	2200	1700	1900	1500	600	2100	3500	600	600	1500	1000
14000	2300	1800	2300	1800	1900	1500	600	2100	3500	700	700	1500	1000
15000	2300	1800	2300	1800	2000	1500	600	2200	3600	700	700	1500	1000
16000	2300	1800	2300	1800	2000	1500	600	2200	3600	700	700	1500	1000
17000	2300	1800	2300	1800	2000	1500	600	2200	3700	700	700	1500	1000
18000	2300	1800	2300	1800	2000	1600	600	2300	3700	700	700	1500	1000
19000	2300	1900	2300	1800	2000	1600	600	2300	3800	700	700	1500	1000
20000	2400	1900	2400	1900	2000	1600	600	2300	3800	700	700	1500	1000

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
2.0 KT

DELAYED CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	800	1000	1200	1400	1600	1800	2000	2200					
2000	.9/.9	.8/.8	.6/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	917	25	14	61	5
3000	.9/.9	.8/.8	.6/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	916	38	21	63	8
4000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	915	51	28	70	10
5000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	914	64	35	80	13
6000	.9/.9	.8/.8	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	913	77	42	87	15
7000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	910	90	49	98	18
8000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	909	102	56	105	20
9000	.9/.9	.8/.8	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	906	116	63	115	23
10000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	904	128	70	122	25
11000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	901	141	77	133	28
12000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	899	154	84	140	30
13000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	896	167	91	150	33
14000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	893	180	98	157	35
15000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	889	193	106	168	38
16000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	886	205	112	175	40
17000	.9/.9	.7/.7	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	882	219	120	185	43
18000	.9/.9	.7/.7	.6/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	879	231	127	192	45
19000	.8/.9	.7/.7	.5/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	874	244	134	203	48
20000	.8/.9	.7/.7	.5/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	870	257	141	210	50

FREE FLIGHT ROCKET 5.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	3100	2500	2400	1900	2100	1600	700	2500	4300	800	800	2100	1300
6000	3100	2500	2400	1900	2100	1600	700	2600	4400	900	800	2100	1400
7000	3200	2600	2500	1900	2100	1700	700	2700	4500	900	900	2100	1400
8000	3200	2600	2500	2000	2200	1700	700	2800	4700	900	900	2100	1400
9000	3200	2600	2500	2000	2200	1700	800	2800	4700	900	900	2100	1400
10000	3300	2700	2600	2000	2200	1800	800	2900	4800	900	900	2200	1400
11000	3300	2700	2600	2100	2300	1800	800	3000	4900	1000	900	2200	1400
12000	3300	2700	2600	2100	2300	1800	800	3000	5000	1000	1000	2200	1500
13000	3400	2800	2700	2100	2300	1900	800	3100	5100	1000	1000	2200	1500
14000	3400	2800	2700	2200	2400	1900	900	3200	5200	1000	1000	2200	1500
15000	3400	2800	2700	2200	2400	1900	900	3200	5300	1000	1000	2200	1500
16000	3500	2900	2800	2200	2400	2000	900	3300	5300	1100	1000	2200	1500
17000	3500	2900	2800	2300	2500	2000	900	3400	5400	1100	1000	2300	1500
18000	3500	2900	2800	2300	2500	2000	900	3400	5500	1100	1000	2300	1500
19000	3600	3000	2900	2300	2500	2000	900	3500	5500	1100	1000	2300	1600
20000	3600	3000	2900	2400	2600	2100	900	3500	5600	1100	1100	2300	1600
21000	3600	3000	2900	2400	2600	2100	900	3500	5700	1100	1000	2300	1600
22000	3700	3000	3000	2400	2600	2100	900	3600	5700	1100	1000	2300	1600
23000	3700	3100	3000	2400	2600	2200	900	3600	5700	1100	1000	2400	1600
24000	3700	3100	3000	2500	2700	2200	900	3700	5800	1100	1000	2400	1600
25000	3800	3100	3000	2500	2700	2200	900	3700	5800	1100	1000	2400	1600
26000	3800	3200	3100	2500	2700	2200	800	3700	5800	1100	1000	2400	1600
27000	3800	3200	3100	2600	2800	2300	800	3700	5900	1100	1000	2400	1600
28000	3900	3200	3100	2600	2800	2300	800	3800	5900	1100	900	2400	1700
29000	3900	3300	3200	2600	2800	2300	800	3800	5900	1000	900	2400	1700
30000	3900	3300	3200	2700	2900	2400	700	3800	6000	1000	900	2500	1700
31000	4000	3300	3200	2700	2900	2400	700	3800	6000	1000	1000	2500	1700
32000	4000	3400	3300	2700	2900	2400	700	3800	6000	1000	900	2500	1700
33000	4000	3400	3300	2700	2900	2400	700	3900	6000	1000	900	2500	1700
34000	4100	3400	3300	2800	3000	2500	700	3900	6000	900	800	2500	1700
35000	4100	3400	3300	2800	3000	2500	700	3800	6000	900	800	2500	1700
36000	4100	3500	3400	2800	3000	2500	700	3900	6100	900	800	2500	1700
37000	4100	3500	3400	2900	3100	2500	400	3900	6100	800	800	2500	1700
38000	4200	3500	3400	2900	3100	2600	400	3900	6100	800	500	2600	1700
39000	4200	3600	3500	2900	3100	2600	300	3900	6100	800	500	2600	1700
40000	4200	3600	3500	2900	3100	2600	300	3900	6100	800	500	2600	1700

NOTE - Radistion measuring instruments should be used when approaching 700 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET
5.0 KT

DELAYED CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	600	800	1200	1600	2000	2400	2800	3200					
5000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.2	.1/.1	.1/.1	1050	128	70	135	25
6000	.9/.9	.9/.9	.7/.7	.4/.5	.3/.3	.2/.2	.1/.1	.1/.1	1045	154	84	152	30
7000	.9/.9	.9/.9	.7/.7	.4/.5	.3/.3	.2/.2	.1/.1	.1/.1	1040	180	98	170	35
8000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	.1/.1	1034	205	112	187	40
9000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	.1/.1	1027	231	127	205	45
10000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	.1/.1	1019	257	141	222	50
11000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	.1/.1	1011	283	155	240	55
12000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	.1/.1	1002	308	169	257	60
13000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	.1/.1	992	334	183	275	65
14000	.9/.9	.9/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	.1/.1	981	360	197	292	70
15000	.9/.9	.8/.9	.6/.7	.4/.4	.2/.3	.2/.2	.1/.1	.1/.1	970	385	211	310	75
16000	.9/.9	.8/.9	.6/.7	.4/.4	.2/.3	.2/.2	.1/.1	.1/.1	957	411	225	327	80
17000	.9/.9	.8/.9	.6/.7	.4/.4	.2/.3	.2/.2	.1/.1	.1/.1	944	437	239	345	85
18000	.9/.9	.8/.9	.6/.6	.4/.4	.2/.2	.2/.2	.1/.1	.1/.1	930	463	254	362	90
19000	.9/.9	.8/.9	.5/.6	.3/.4	.2/.2	.2/.2	.1/.1	.1/.1	915	488	268	380	95
20000	.8/.9	.7/.9	.5/.6	.3/.4	.2/.2	.1/.2	.1/.1	.1/.1	898	514	282	397	100
21000	.8/.9	.7/.8	.5/.6	.3/.4	.2/.2	.1/.2	.1/.1	.1/.1	881	540	296	415	105
22000	.8/.9	.7/.8	.5/.6	.3/.4	.2/.2	.1/.2	.1/.1	.1/.1	863	566	310	432	110
23000	.7/.9	.6/.8	.5/.6	.3/.3	.2/.2	.1/.2	.1/.1	.1/.1	843	591	324	450	115
24000	.7/.9	.6/.8	.4/.6	.3/.3	.2/.2	.1/.1	.1/.1	.1/.1	822	617	338	467	120
25000	.7/.9	.6/.8	.4/.5	.3/.3	.2/.2	.1/.1	.1/.1	.1/.1	800	643	352	485	125
26000	.6/.8	.5/.7	.4/.5	.2/.3	.2/.2	.1/.1	.1/.1	.1/.1	776	668	367	502	130
27000	.6/.8	.5/.7	.3/.5	.2/.3	.1/.2	.1/.1	.1/.1	.1/.1	750	694	381	520	135
28000	.5/.8	.4/.7	.3/.5	.2/.3	.1/.2	.1/.1	.1/.1	.1/.1	723	720	395	537	140
29000	.5/.8	.4/.7	.3/.5	.2/.3	.1/.2	.1/.1	.1/.1	.0/.1	693	746	409	555	145
30000	.4/.7	.4/.7	.2/.5	.2/.3	.1/.2	.1/.1	.1/.1	.0/.1	662	771	423	572	150
31000	.3/.7	.3/.6	.2/.5	.2/.3	.1/.2	.1/.1	.1/.1	.0/.1	627	797	437	590	155
32000	.3/.7	.3/.6	.2/.4	.1/.3	.1/.2	.1/.1	.0/.1	.0/.1	589	823	451	607	160
33000	.2/.7	.2/.6	.2/.4	.1/.3	.1/.2	.1/.1	.0/.1	.0/.1	548	849	465	625	165
34000	.2/.6	.1/.6	.1/.4	.1/.3	.1/.2	.0/.1	.0/.1	.0/.1	501	874	479	642	170
35000	.1/.6	.1/.5	.1/.4	.1/.2	.1/.2	.0/.1	.0/.1	.0/.1	449	900	494	660	175
36000	.0/.6	.0/.5	.1/.4	.1/.2	.0/.1	.0/.1	.0/.1	.0/.1	387	926	508	677	180
37000	.0/.6	.0/.5	.1/.4	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	312	951	522	695	185
38000	.0/.5	.0/.5	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	208	977	536	712	190
39000	.0/.5	.0/.4	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	1003	550	730	195
40000	.0/.5	.0/.4	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	.0/.0	0	1029	564	747	200

FREE FLIGHT ROCKET 10.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	4700	3700	2600	2300	2300	1800	800	3300	5600	1100	1100	3000	1900
6000	4700	3700	2700	2300	2300	1800	900	3400	5700	1200	1100	3000	2000
7000	4700	3800	2700	2400	2300	1800	900	3400	5800	1200	1100	3000	2000
8000	4800	3800	2700	2400	2400	1900	900	3500	6000	1200	1100	3100	2000
9000	4800	3800	2800	2400	2400	1900	900	3600	6100	1200	1200	3100	2000
10000	4800	3900	2800	2500	2400	1900	1000	3700	6200	1300	1200	3100	2000
11000	4900	3900	2800	2500	2500	2000	1000	3700	6300	1300	1200	3100	2000
12000	4900	3900	2900	2500	2500	2000	1000	3800	6400	1300	1200	3100	2100
13000	4900	4000	2900	2600	2500	2000	1000	3900	6500	1300	1300	3200	2100
14000	5000	4000	2900	2600	2600	2100	1100	3900	6600	1400	1300	3200	2100
15000	5000	4000	3000	2600	2600	2100	1100	4000	6700	1400	1300	3200	2100
16000	5000	4100	3000	2700	2600	2100	1100	4100	6800	1400	1300	3200	2100
17000	5100	4100	3000	2700	2700	2200	1100	4200	6900	1400	1300	3200	2100
18000	5100	4100	3100	2700	2700	2200	1100	4200	6900	1400	1400	3200	2200
19000	5100	4200	3100	2800	2700	2200	1200	4300	7000	1500	1400	3300	2200
20000	5200	4200	3100	2800	2800	2300	1200	4400	7100	1500	1400	3300	2200
21000	5200	4200	3200	2800	2800	2300	1200	4400	7200	1500	1400	3300	2200
22000	5200	4300	3200	2900	2800	2300	1200	4500	7300	1500	1400	3300	2200
23000	5300	4300	3200	2900	2900	2300	1200	4500	7300	1500	1500	3300	2200
24000	5300	4300	3300	2900	2900	2400	1200	4600	7400	1500	1500	3300	2200
25000	5300	4400	3300	3000	2900	2400	1200	4600	7500	1600	1500	3400	2300
26000	5400	4400	3300	3000	2900	2400	1200	4700	7500	1600	1500	3400	2300
27000	5400	4400	3300	3000	3000	2500	1200	4700	7600	1600	1500	3400	2300
28000	5400	4500	3400	3000	3000	2500	1200	4800	7600	1600	1500	3400	2300
29000	5500	4500	3400	3100	3000	2500	1200	4800	7700	1600	1500	3400	2300
30000	5500	4500	3400	3100	3100	2500	1300	4800	7700	1600	1500	3400	2300
31000	5500	4600	3500	3100	3100	2600	1200	4900	7800	1600	1500	3400	2300
32000	5600	4600	3500	3200	3100	2600	1200	4900	7800	1600	1500	3500	2300
33000	5600	4600	3500	3200	3200	2600	1200	5000	7800	1600	1500	3500	2400
34000	5600	4600	3600	3200	3200	2700	1200	5000	7900	1600	1500	3500	2400
35000	5700	4700	3600	3300	3200	2700	1300	5000	7900	1600	1500	3500	2400
36000	5700	4700	3600	3300	3200	2700	1100	5000	7900	1600	1500	3500	2400
37000	5700	4700	3700	3300	3300	2700	1100	5100	8000	1600	1500	3500	2400
38000	5800	4800	3700	3300	3300	2800	1200	5100	8000	1600	1400	3500	2400
39000	5800	4800	3700	3400	3300	2800	1200	5100	8000	1600	1400	3600	2400
40000	5800	4800	3700	3400	3400	2800	1200	5100	8000	1600	1400	3600	2400

NOTE - Radiation measuring instruments should be used when approaching 700 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET 10.0 KT

DELAYED CASUALTIES TO EXPOSED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
RANGE									PROB.				
	RADIUS OF TARGET								MIN. RD	CD 90	CEP	HOB	PEH
	600	800	1200	1600	2000	2400	2800	3200					
5000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.2	1204	128	70	152	25
6000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.2	1199	154	84	169	30
7000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1194	180	98	187	35
8000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1188	205	112	204	40
9000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1182	231	127	222	45
10000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.2/.3	.2/.2	.1/.1	1175	257	141	239	50
11000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.2/.3	.2/.2	.1/.1	1167	283	155	257	55
12000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.2/.3	.2/.2	.1/.1	1168	308	169	274	60
13000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.2/.3	.2/.2	.1/.1	1167	334	183	292	65
14000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.2/.3	.2/.2	.1/.1	1165	360	197	309	70
15000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.2/.3	.2/.2	.1/.1	1170	385	211	327	75
16000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.2/.3	.2/.2	.1/.1	1164	411	225	344	80
17000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.2/.3	.2/.2	.1/.1	1171	437	239	362	85
18000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.2/.3	.2/.2	.1/.1	1166	463	254	379	90
19000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.2/.3	.2/.2	.1/.1	1167	488	268	397	95
20000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.2/.3	.2/.2	.1/.1	1171	514	282	414	100
21000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.2/.3	.2/.2	.1/.1	1167	540	296	432	105
22000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.2/.3	.2/.2	.1/.1	1163	566	310	449	110
23000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1176	591	324	467	115
24000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.2/.3	.2/.2	.1/.1	1173	617	338	484	120
25000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.2/.3	.2/.2	.1/.1	1170	643	352	502	125
26000	.9/.9	.8/.9	.6/.7	.4/.6	.2/.4	.2/.3	.1/.2	.1/.1	964	668	367	519	130
27000	.8/.9	.7/.9	.5/.7	.4/.5	.2/.4	.2/.3	.1/.2	.1/.1	943	694	381	537	135
28000	.8/.9	.7/.9	.5/.7	.3/.5	.2/.4	.2/.2	.1/.2	.1/.1	921	720	395	554	140
29000	.7/.9	.6/.9	.5/.7	.3/.5	.2/.4	.1/.2	.1/.2	.1/.1	898	746	409	572	145
30000	.7/.9	.6/.8	.4/.7	.3/.5	.2/.3	.1/.2	.1/.2	.1/.1	873	771	423	589	150
31000	.6/.9	.5/.8	.4/.7	.3/.5	.2/.3	.1/.2	.1/.2	.1/.1	846	797	437	607	155
32000	.6/.8	.5/.8	.4/.6	.2/.5	.2/.3	.1/.2	.1/.2	.1/.1	818	823	451	624	160
33000	.5/.8	.5/.8	.3/.6	.2/.5	.2/.3	.1/.2	.1/.2	.1/.1	788	849	465	642	165
34000	.5/.8	.4/.8	.3/.6	.2/.4	.1/.3	.1/.2	.1/.2	.1/.1	756	874	479	659	170
35000	.4/.8	.4/.7	.2/.6	.2/.4	.1/.3	.1/.2	.1/.2	.1/.1	722	900	494	677	175
36000	.3/.8	.3/.7	.2/.6	.2/.4	.1/.3	.1/.2	.1/.1	.0/.1	685	926	508	694	180
37000	.3/.7	.3/.7	.2/.5	.2/.4	.1/.3	.1/.2	.1/.1	.0/.1	644	951	522	712	185
38000	.2/.7	.2/.7	.2/.5	.1/.4	.1/.3	.1/.2	.0/.1	.0/.1	600	977	536	729	190
39000	.1/.7	.1/.6	.1/.5	.1/.4	.1/.3	.1/.2	.0/.1	.0/.1	551	1003	550	747	195
40000	.0/.7	.0/.6	.1/.5	.1/.4	.1/.3	.0/.2	.0/.1	.0/.1	496	1029	564	764	200

FREE FLIGHT ROCKET 50.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
5000	10400	7800	5400	4500	3200	2800	1500	5500	9500	2300	2000	6300	4000
6000	10500	7900	5400	4600	3300	2800	1500	5600	9600	2300	2100	6300	4000
7000	10500	8000	5500	4700	3300	2900	1500	5700	9800	2300	2100	6400	4100
8000	10600	8000	5500	4700	3400	2900	1600	5800	9900	2400	2100	6400	4100
9000	10600	8000	5600	4800	3400	2900	1600	5900	10100	2400	2100	6500	4100
10000	10600	8100	5600	4800	3500	3000	1600	6000	10200	2400	2200	6500	4100
11000	10700	8100	5700	4800	3500	3000	1700	6100	10300	2500	2200	6500	4200
12000	10700	8200	5700	4900	3500	3100	1700	6100	10500	2500	2200	6500	4200
13000	10800	8200	5700	4900	3600	3100	1700	6200	10600	2500	2200	6600	4200
14000	10800	8200	5800	4900	3600	3100	1700	6300	10700	2500	2300	6600	4200
15000	10800	8300	5800	5000	3600	3200	1800	6400	10900	2600	2300	6600	4300
16000	10900	8300	5800	5000	3700	3200	1800	6400	11000	2600	2300	6600	4300
17000	10900	8300	5900	5000	3700	3200	1800	6500	11100	2600	2300	6600	4300
18000	10900	8400	5900	5100	3700	3300	1800	6600	11200	2600	2400	6700	4300
19000	11000	8400	5900	5100	3800	3300	1900	6700	11300	2700	2400	6700	4300
20000	11000	8400	6000	5100	3800	3300	1900	6700	11400	2700	2400	6700	4300
21000	11000	8500	6000	5200	3800	3300	1900	6800	11500	2700	2400	6700	4400
22000	11100	8500	6000	5200	3900	3400	1900	6900	11600	2700	2500	6700	4400
23000	11100	8500	6100	5200	3900	3400	2000	6900	11700	2800	2500	6800	4400
24000	11100	8600	6100	5300	3900	3400	2000	7000	11800	2800	2500	6800	4400
25000	11200	8600	6100	5300	4000	3500	2000	7100	11900	2800	2500	6800	4400
26000	11200	8600	6200	5300	4000	3500	2000	7200	12000	2800	2500	6800	4400
27000	11200	8700	6200	5400	4000	3500	2100	7200	12100	2900	2600	6800	4500
28000	11300	8700	6200	5400	4100	3600	2100	7300	12200	2900	2600	6800	4500
29000	11300	8700	6300	5400	4100	3600	2100	7400	12200	2900	2600	6900	4500
30000	11400	8800	6300	5500	4100	3600	2100	7500	12300	2900	2600	6900	4500
31000	11400	8800	6300	5500	4200	3700	2100	7500	12400	3000	2600	6900	4500
32000	11400	8800	6400	5500	4200	3700	2200	7600	12500	3000	2700	6900	4500
33000	11500	8900	6400	5600	4200	3700	2200	7700	12600	3000	2700	6900	4600
34000	11500	8900	6400	5600	4300	3700	2200	7700	12700	3000	2700	6900	4600
35000	11500	8900	6500	5600	4300	3800	2200	7800	12800	3000	2700	7000	4600
36000	11600	9000	6500	5700	4300	3800	2200	7900	12800	3100	2700	7000	4600
37000	11600	9000	6500	5700	4400	3800	2300	7900	12900	3100	2700	7000	4600
38000	11600	9000	6600	5700	4400	3900	2300	8000	13000	3100	2700	7000	4600
39000	11700	9100	6600	5800	4400	3900	2300	8000	13100	3100	2700	7000	4600
40000	11700	9100	6600	5800	4500	3900	2300	8100	13100	3100	2800	7000	4700

NOTE - Radiation measuring instruments should be used when approaching 1,000 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET 50.0 KT

DELAYED CASUALTIES TO EXPOSED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
RANGE	RADIUS OF TARGET								PROB.	CD 90	CEP	HOB	PEH
									MIN. RD				
	2000	2400	2800	3200	3600	4000	4400	4800					
5000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	2079	128	70	207	25
6000	.9/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	2085	154	84	222	30
7000	.9/.9	.7/.8	.6/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	2094	180	98	239	35
8000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2104	205	112	257	40
9000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2113	231	127	274	45
10000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2122	257	141	292	50
11000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2131	283	155	309	55
12000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2140	308	169	327	60
13000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2149	334	183	344	65
14000	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2158	360	197	362	70
15000	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2167	385	211	379	75
16000	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.2	2176	411	225	397	80
17000	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	2184	437	239	414	85
18000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.3	2193	463	254	432	90
19000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.3	2202	488	268	449	95
20000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2211	514	282	467	100
21000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2220	540	296	484	105
22000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2229	566	310	502	110
23000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2237	591	324	519	115
24000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2246	617	338	537	120
25000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2255	643	352	554	125
26000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2264	668	367	572	130
27000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2272	694	381	589	135
28000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2281	720	395	607	140
29000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2290	746	409	624	145
30000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2298	771	423	642	150
31000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2307	797	437	659	155
32000	.9/.9	.8/.8	.6/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	2316	823	451	677	160
33000	.9/.9	.8/.8	.6/.8	.5/.6	.4/.5	.4/.4	.3/.4	.2/.3	2324	849	465	694	165
34000	.9/.9	.8/.8	.6/.8	.5/.6	.4/.5	.4/.4	.3/.4	.2/.3	2333	874	479	712	170
35000	.9/.9	.8/.8	.7/.8	.5/.6	.4/.5	.4/.4	.3/.4	.2/.3	2341	900	494	729	175
36000	.9/.9	.8/.8	.7/.8	.5/.6	.4/.5	.4/.4	.3/.4	.2/.3	2350	926	508	747	180
37000	.9/.9	.8/.8	.7/.8	.5/.7	.4/.5	.4/.4	.3/.4	.3/.3	2358	951	522	764	185
38000	.8/.9	.8/.8	.7/.8	.5/.7	.4/.5	.4/.4	.3/.4	.3/.3	2367	977	536	782	190
39000	.8/.9	.7/.8	.6/.8	.5/.6	.4/.5	.3/.4	.3/.4	.2/.3	2280	1003	550	799	195
40000	.8/.9	.7/.8	.6/.8	.5/.6	.4/.5	.3/.4	.3/.4	.2/.3	2286	1029	564	817	200

FREE FLIGHT ROCKET 100.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	14400	10600	7300	6100	4400	3700	1900	7200	12400	3000	2700	8600	5500
6000	14500	10700	7300	6100	4400	3700	2000	7300	12500	3100	2700	8700	5500
7000	14500	10700	7300	6200	4400	3800	2000	7400	12700	3100	2800	8700	5500
8000	14600	10800	7400	6200	4500	3800	2000	7500	12800	3100	2800	8700	5500
9000	14600	10800	7400	6300	4500	3800	2000	7600	13000	3200	2800	8700	5500
10000	14600	10800	7400	6300	4500	3900	2100	7700	13100	3200	2800	8800	5600
11000	14700	10900	7500	6300	4600	3900	2100	7700	13200	3200	2900	8800	5600
12000	14700	10900	7500	6400	4600	3900	2100	7800	13400	3200	2900	8800	5600
13000	14700	10900	7500	6400	4600	4000	2100	7900	13500	3300	2900	8800	5600
14000	14800	11000	7600	6400	4700	4000	2200	8000	13600	3300	2900	8800	5600
15000	14800	11000	7600	6500	4700	4000	2200	8000	13800	3300	3000	8800	5700
16000	14800	11000	7600	6500	4700	4100	2200	8100	13900	3300	3000	8900	5700
17000	14900	11100	7700	6500	4800	4100	2300	8200	14000	3400	3000	8900	5700
18000	14900	11100	7700	6600	4800	4100	2300	8200	14100	3400	3000	8900	5700
19000	14900	11100	7700	6600	4800	4200	2300	8300	14200	3400	3100	8900	5700
20000	15000	11200	7800	6600	4900	4200	2300	8400	14300	3500	3100	8900	5700
21000	15000	11200	7800	6700	4900	4200	2400	8500	14400	3500	3100	9000	5800
22000	15000	11200	7800	6700	4900	4300	2400	8500	14500	3500	3100	9000	5800
23000	15100	11300	7900	6700	5000	4300	2400	8600	14600	3500	3100	9000	5800
24000	15100	11300	7900	6800	5000	4300	2400	8700	14700	3600	3200	9000	5800
25000	15100	11300	7900	6800	5000	4300	2400	8800	14800	3600	3200	9000	5800
26000	15200	11400	8000	6800	5100	4400	2500	8800	14900	3600	3200	9000	5800
27000	15200	11400	8000	6900	5100	4400	2500	8900	14900	3600	3200	9100	5900
28000	15200	11400	8000	6900	5100	4400	2500	9000	15000	3700	3300	9100	5900
29000	15300	11500	8100	6900	5200	4500	2500	9000	15100	3700	3300	9100	5900
30000	15300	11500	8100	7000	5200	4500	2600	9100	15200	3700	3300	9100	5900
31000	15300	11500	8100	7000	5200	4500	2600	9200	15300	3700	3300	9100	5900
32000	15400	11600	8200	7000	5300	4600	2600	9300	15400	3700	3400	9100	5900
33000	15400	11600	8200	7100	5300	4600	2600	9300	15500	3800	3400	9200	6000
34000	15500	11600	8200	7100	5300	4600	2700	9400	15600	3800	3400	9200	6000
35000	15500	11700	8300	7100	5400	4700	2700	9500	15700	3800	3400	9200	6000
36000	15500	11700	8300	7100	5400	4700	2700	9500	15700	3800	3400	9200	6000
37000	15600	11700	8300	7200	5400	4700	2700	9600	15800	3900	3500	9200	6000
38000	15600	11800	8400	7200	5400	4700	2700	9700	15900	3900	3500	9200	6000
39000	15600	11800	8400	7200	5500	4800	2800	9700	16000	3900	3500	9300	6100
40000	15700	11800	8400	7300	5500	4800	2800	9800	16100	3900	3500	9300	6100

NOTE - Radiation measuring instruments should be used when approaching 1,000 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET
100.0 KT

DELAYED CASUALTIES TO EXPOSED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
RANGE									PROB.				
	RADIUS OF TARGET								MIN. RD	CD 90	CEP	HOB	PEH
	3000	3500	4000	4500	5000	5500	6000	6500					
5000	.9/.9	.7/.7	.6/.6	.4/.5	.4/.4	.3/.3	.3/.3	.2/.2	2949	128	70	358	25
6000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2959	154	84	376	30
7000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2969	180	98	393	35
8000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2979	205	112	411	40
9000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2990	231	127	428	45
10000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	3000	257	141	446	50
11000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.3	3010	283	155	463	55
12000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.3	3020	308	169	481	60
13000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	3030	334	183	498	65
14000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	3040	360	197	516	70
15000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	3050	385	211	533	75
16000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	3060	411	225	551	80
17000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	3070	437	239	568	85
18000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	3080	463	254	586	90
19000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	3090	488	268	603	95
20000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.5	.3/.4	.3/.3	.2/.3	3099	514	282	621	100
21000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	3109	540	296	638	105
22000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	3119	566	310	656	110
23000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	3129	591	324	673	115
24000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	3139	617	338	691	120
25000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	3148	643	352	708	125
26000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	3158	668	367	726	130
27000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	3168	694	381	743	135
28000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	3177	720	395	761	140
29000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.3/.3	3187	746	409	778	145
30000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.3/.3	3197	771	423	796	150
31000	.9/.9	.8/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.3/.3	3206	797	437	813	155
32000	.9/.9	.8/.8	.7/.7	.5/.6	.4/.5	.4/.4	.3/.3	.3/.3	3216	823	451	831	160
33000	.9/.9	.8/.8	.7/.7	.5/.6	.4/.5	.4/.4	.3/.4	.3/.3	3225	849	465	848	165
34000	.9/.9	.8/.8	.7/.7	.5/.6	.4/.5	.4/.4	.3/.4	.3/.3	3235	874	479	866	170
35000	.9/.9	.8/.8	.7/.7	.5/.6	.4/.5	.4/.4	.3/.4	.3/.3	3244	900	494	883	175
36000	.9/.9	.8/.8	.7/.7	.5/.6	.4/.5	.4/.4	.3/.4	.3/.3	3253	926	508	901	180
37000	.9/.9	.8/.8	.7/.7	.5/.6	.4/.5	.4/.4	.3/.4	.3/.3	3263	951	522	918	185
38000	.9/.9	.8/.8	.7/.7	.6/.6	.4/.5	.4/.4	.3/.4	.3/.3	3272	977	536	936	190
39000	.9/.9	.8/.8	.6/.7	.6/.6	.5/.5	.4/.4	.3/.4	.3/.3	3281	1003	550	953	195
40000	.9/.9	.8/.8	.6/.7	.6/.6	.5/.5	.4/.4	.3/.4	.3/.3	3291	1029	564	971	200

LIGHT GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
2 KT	2200	1700	2200	1700	1900	1500	500	2100	3500	600	600	1400	1000
5 KT	3100	2500	2400	1900	2100	1600	700	2600	4400	800	800	2100	1400
10 KT	4700	3700	2700	2300	2300	1800	900	3400	5700	1200	1100	3000	1900
20 KT	6900	5400	3700	3200	2500	2000	1100	4300	7300	1600	1500	4300	2800

NOTE - Radiation measuring instruments should be used when approaching 400-700 meters of ground zero because of induced contamination of the soil.

LIGHT GUIDED MISSILE

DELAYED CASUALTIES TO EXPOSED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
YIELD	RADIUS OF TARGET								PROB.	CD 90	CEP	HOB	PEH
									MIN. RD				
2 KT	800	1000	1200	1400	1600	1800	2000	2200	899	182	100	143	30
	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2					
5 KT	1200	1400	1600	1800	2000	2200	2400	2600	1044	182	100	157	30
	.7/.7	.6/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					
10 KT	600	800	1200	1600	2000	2400	2800	3200	1199	182	100	170	30
	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1					
20 KT	800	1200	1600	2000	2400	2800	3200	3600	1415	182	100	187	30
	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2					

Range span 10,000 - 50,000 meters

MEDIUM GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
10 KT	5500	4500	3500	3100	3100	2600	1300	3900	6400	1600	1500	3500	2400
20 KT	7700	6200	4500	4000	3300	2800	1600	4900	8100	2100	1900	4800	3200
50 KT	11300	8700	6200	5400	4100	3600	2000	6200	10400	2800	2500	6800	4500
100 KT	15100	11300	8000	6800	5100	4500	2300	7500	12600	3400	3100	9000	5800
200 KT	20700	15000	10500	8900	6600	5700	2900	9600	16300	4500	4000	12100	7800

NOTE - Radiation measuring instruments should be used when approaching 700-1,000 meters of ground zero because of induced contamination of the soil.

MEDIUM GUIDED MISSILE

DELAYED CASUALTIES TO EXPOSED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
10 KT	600	800	1200	1600	2000	2400	2800	3200	1175	911	500	240	50
	.7/.9	.6/.8	.5/.7	.4/.5	.4/.4	.2/.3	.2/.2	.1/.1					
20 KT	800	1200	1600	2000	2400	2800	3200	3600	1444	911	500	257	50
	.8/.9	.7/.8	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2					
50 KT	1600	2000	2400	2800	3200	3600	4000	4400	2115	911	500	286	50
	.9/.9	.8/.8	.7/.7	.6/.6	.4/.5	.4/.4	.3/.3	.2/.3					
100 KT	2000	2600	3200	3800	4400	5000	5600	6200	2846	911	500	315	50
	.9/.9	.8/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	.2/.2					
200 KT	3200	4000	4800	5600	6400	7200	8000	8800	4085	911	500	502	50
	.9/.9	.8/.9	.7/.7	.6/.6	.4/.4	.3/.4	.3/.3	.2/.2					

Range span 50,000 - 150,000 meters

HEAVY GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
200 KT	21800	16100	11500	9900	7600	6700	3500	10700	17800	5100	4600	12700	8300
500 KT	32400	22800	16100	13700	10300	8900	4400	13800	23100	6800	5800	18300	11900
1000 KT	44200	30000	20900	17800	13200	11300	5200	16800	28200	8500	7000	24400	15700
2000 KT	48900	32800	22900	19400	14300	12300	5600	18200	30700	9200	7600	26800	17200
5000 KT	67000	43100	30200	25600	18700	15900	6800	22500	38100	11500	9500	35900	22900

NOTE - Radiation measuring instruments should be used when approaching 1,000-1,400 meters of ground zero because of induced contamination of the soil.

HEAVY GUIDED MISSILE

DELAYED CASUALTIES TO EXPOSED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
YIELD		RADIUS OF TARGET							PROB. MIN. RD	CD 90	CEP	HOB	PEH
200 KT	4000	4800	5600	6400	7200	8000	8800	9600	4200	1822	1000	677	100
	.8/.8	.7/.7	.6/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2					
500 KT	6000	8000	10000	12000	14000	16000	18000	20000	6255	1822	1000	795	100
	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1					
1000 KT	8000	12000	16000	18000	20000	22000	24000	28000	8408	1822	1000	910	100
	.9/.9	.5/.5	.3/.3	.2/.2	.2/.2	.2/.2	.1/.1	.1/.1					
2000 KT	8000	12000	16000	18000	20000	24000	28000	32000	9425	1822	1000	1056	100
	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1					
5000 KT	10000	16000	20000	24000	28000	32000	36000	42000	12747	1822	1000	1308	100
	.9/.9	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1					

Range span 50,000 - 300,000 meters

AIRCRAFT DELIVERED WEAPONS

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5 KT	3400	2800	2700	2200	2400	1900	900	3000	4900	1000	1000	2200	1500
10 KT	5000	4000	3000	2600	2600	2100	1100	3700	6200	1300	1300	3200	2100
20 KT	1200	5700	4100	3500	2800	2300	1200	4700	7900	1800	1600	4500	2900
50 KT	10800	8200	5800	4900	3600	3100	1700	6000	10200	2500	2200	6600	4200
100 KT	14700	10900	7500	6400	4600	4000	2100	7300	12500	3200	2900	8700	5600
200 KT	20300	14600	10000	8400	6100	5200	2600	9400	16100	4200	3700	11800	7500
500 KT	30800	21200	14500	12100	8800	7400	3500	12500	21300	5800	4900	17400	11000
1000 KT	42400	28300	19200	16100	11600	9700	4300	15400	26400	7500	6200	23400	14800
2000 KT	47500	31300	21400	17900	12900	10800	4800	17600	30200	8400	6800	26000	16400
5000 KT	65500	41600	28700	24100	17200	14400	6000	21900	37700	10700	8700	35100	22100

NOTE - Radiation measuring instruments should be used when approaching 400-1,400 meters of ground zero because of induced contamination of the soil.

AIRCRAFT DELIVERED WEAPONS

DELAYED CASUALTIES TO EXPOSED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
YIELD	1000 .7/.8	1200 .6/.7	1400 .5/.5	1600 .4/.4	1800 .3/.3	2000 .3/.3	2200 .2/.2	2400 .2/.2					
5 KT									1014	455	250	227	50
10 KT	600 .9/.9	800 .9/.9	1200 .7/.8	1600 .6/.6	2000 .4/.4	2400 .2/.3	2800 .2/.2	3200 .1/.1	1175	455	250	240	50
20 KT	800 .9/.9	1200 .9/.9	1600 .7/.8	2000 .5/.6	2400 .4/.4	2800 .3/.3	3200 .2/.2	3600 .2/.2	1444	455	250	257	50
50 KT	2000 .9/.9	2400 .7/.8	2800 .6/.6	3200 .5/.5	3600 .4/.4	4000 .3/.3	4400 .2/.3	4800 .2/.2	2115	455	250	286	50
100 KT	2000 .9/.9	2800 .9/.9	3600 .6/.7	4400 .4/.5	5200 .3/.3	6000 .2/.3	6800 .2/.2	7600 .1/.2	2846	455	250	315	50
200 KT	4000 .9/.9	4800 .7/.7	5600 .6/.6	6400 .4/.5	7200 .3/.4	8000 .3/.3	8800 .2/.2	9600 .2/.2	4085	455	250	502	50
500 KT	6000 .9/.9	8000 .6/.6	10000 .4/.4	12000 .3/.3	14000 .2/.2	16000 .2/.2	18000 .1/.1	20000 .1/.1	6119	455	250	620	50
1000 KT	8000 .9/.9	12000 .5/.5	16000 .3/.3	18000 .2/.2	20000 .2/.2	22000 .1/.2	24000 .1/.1	28000 .1/.1	8256	455	250	735	50
2000 KT	8000 .9/.9	12000 .6/.7	16000 .4/.4	18000 .3/.3	20000 .2/.3	24000 .2/.2	28000 .1/.1	32000 .1/.1	9425	455	250	1056	100
5000 KT	10000 .9/.9	16000 .6/.7	20000 .4/.5	24000 .3/.3	28000 .2/.2	32000 .2/.2	36000 .1/.2	42000 .1/.1	12747	455	250	1308	100

CHAPTER 6
 COVERAGE TABLES FOR
 PROMPT CASUALTIES TO PROTECTED PERSONNEL

	Page
Short Range Cannon 0.5 KT.....	85
1.0 KT.....	87
Medium Range Cannon 0.5 KT.....	89
1.0 KT.....	91
2.0 KT.....	93
Free Flight Rocket 5.0 KT.....	95
10.0 KT.....	97
50.0 KT.....	99
100.0 KT.....	101
Light Guided Missile 2, 5, 10, and 20 KT	103
Medium Guided Missile 10, 20, 50, 100, and 200 KT	105
Heavy Guided Missile 200, 500, 1,000, 2,000, and 5,000 KT	107
Aircraft Delivered Weapons 5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, and 5,000 KT	109

TABLES OF MAXIMUM TARGET RADIUS (.3 Probable Minimum Coverage)

(Distances in Meters)

LOW AIRBURST

PROMPT CASUALTIES TO PROTECTED PERSONNEL

Range	Short Range Cannon		Medium Range Cannon			Free Flight Rocket			
	.5	1	.5	1	2	5	10	50	100
2000	700	900	700	900	1000				
3000	700	900	700	900	1000				
4000	700	900	700	900	1000				
5000	700	900	700	900	1000	1200	1400	2000	2000
6000	700	900	700	900	1000	1200	1400	2000	2000
7000	700	800	700	800	1000	1200	1400	2000	2000
8000	700	800	700	800	1000	1200	1400	2000	2000
9000	600	800	600	800	1000	1100	1400	2000	2000
10000	600	800	600	800	1000	1100	1400	1800	2000
12000			600	800	1000	1000	1200	1800	2000
14000			600	800	900	1000	1200	1800	2000
16000			500	700	900	900	1200	1800	2000
18000			500	700	900	600	1000	1800	2000
20000			400	700	900		800	1800	2000
22000							600	1800	2000
24000								1800	2000
26000								1800	2000
28000								1200	2000
30000									2000
32000									1200
34000									800
36000									
38000									
40000									

Light Guided Missile				
2	5	10	20	
1000	1200	1400	1600	

0

Medium Guided Missile				
10	20	50	100	200
1200	1600	1800	2000	2400

Heavy Guided Missile				
200	500	1000	2000	5000
2200	3600	4600	5000	6000

Aircraft Delivered Weapons							
5	10	20	50	100	200	500	1000
1000	1400	1600	2000	2000	2400	3600	4500
							5000
							6000

NOTE: Blank spaces indicate either the target is out of range or a probable minimum coverage of .3 cannot be obtained.

SHORT RANGE CANNON 0.5 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1700	1300	1700	1300	1400	1000	300	1000	1800	300	300	700	500
3000	1700	1300	1700	1300	1500	1100	300	1100	1800	300	300	700	500
4000	1800	1300	1800	1300	1500	1100	300	1100	1900	300	300	700	500
5000	1800	1300	1800	1300	1500	1100	300	1200	2000	300	300	800	500
6000	1800	1300	1800	1300	1500	1100	300	1200	2000	400	400	800	500
7000	1800	1300	1800	1300	1500	1100	300	1300	2100	400	400	800	500
8000	1800	1400	1800	1400	1500	1100	300	1300	2100	400	400	800	500
9000	1800	1400	1800	1400	1600	1200	300	1300	2200	400	400	800	500
10000	1900	1400	1900	1400	1600	1200	400	1400	2200	400	400	800	500

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

SHORT RANGE CANNON
0.5 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

PROB.
MIN.
RD

ACCURACY DATA

CD 90 CEP HOB PEH

RADIUS OF TARGET

RANGE	200	300	400	500	600	700	800	900	PROB. MIN. RD	CD 90	CEP	HOB	PEH
2000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	363	25	14	38	5
3000	.9/.9	.9/.9	.8/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	361	38	21	49	8
4000	.9/.9	.9/.9	.8/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	359	51	28	56	10
5000	.9/.9	.9/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	355	64	35	66	13
6000	.9/.9	.9/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	352	77	42	73	15
7000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	348	90	49	84	18
8000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	344	102	56	91	20
9000	.9/.9	.8/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	338	116	63	101	23
10000	.9/.9	.8/.9	.6/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	333	128	70	108	25

SHORT RANGE CANNON 1.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1900	1400	1900	1400	1600	1200	300	1300	2300	400	400	1000	700
3000	1900	1400	1900	1400	1600	1200	300	1400	2300	400	400	1000	700
4000	1900	1500	1900	1500	1600	1200	400	1400	2400	400	400	1000	700
5000	1900	1500	1900	1500	1700	1200	400	1500	2500	400	400	1000	700
6000	2000	1500	2000	1500	1700	1200	400	1500	2500	500	500	1100	700
7000	2000	1500	2000	1500	1700	1300	400	1500	2600	500	500	1100	700
8000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
9000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
10000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1100	700

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

SHORT RANGE CANNON
1.0 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
RANGE									PROB.				
	RADIUS OF TARGET								MIN. RD	CD 90	CEP	HOB	PEH
	400	500	600	700	800	900	1000	1100					
2000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	450	25	14	49	5
3000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	448	38	21	55	8
4000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	446	51	28	62	10
5000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	443	64	35	73	13
6000	.9/.9	.7/.7	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	441	77	42	80	15
7000	.9/.9	.7/.7	.6/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	436	90	49	90	18
8000	.9/.9	.7/.7	.5/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	433	102	56	97	20
9000	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2	428	116	63	108	23
10000	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2	424	128	70	115	25

MEDIUM RANGE CANNON 0.5 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1700	1300	1700	1300	1400	1000	300	1000	1800	300	300	700	500
3000	1700	1300	1700	1300	1500	1100	300	1100	1800	300	300	700	500
4000	1800	1300	1800	1300	1500	1100	300	1100	1900	300	300	700	500
5000	1800	1300	1800	1300	1500	1100	300	1200	2000	300	300	800	500
6000	1800	1300	1800	1300	1500	1100	300	1200	2000	400	400	800	500
7000	1800	1300	1800	1300	1500	1100	300	1300	2100	400	400	800	500
8000	1800	1400	1800	1400	1500	1100	300	1300	2100	400	400	800	500
9000	1800	1400	1800	1400	1600	1200	300	1300	2200	400	400	800	500
10000	1900	1400	1900	1400	1600	1200	400	1400	2200	400	400	800	500
11000	1900	1400	1900	1400	1600	1200	400	1400	2300	400	400	800	600
12000	1900	1400	1900	1400	1600	1200	400	1400	2300	400	400	800	600
13000	1900	1400	1900	1400	1600	1200	400	1500	2400	400	400	800	600
14000	1900	1500	1900	1500	1600	1200	400	1500	2400	400	400	800	600
15000	1900	1500	1900	1500	1700	1300	400	1500	2400	400	400	800	600
16000	2000	1500	2000	1500	1700	1300	400	1500	2500	400	400	800	600
17000	2000	1500	2000	1500	1700	1300	400	1600	2500	400	400	900	600
18000	2000	1500	2000	1500	1700	1300	400	1600	2500	400	400	900	600
19000	2000	1500	2000	1500	1700	1300	300	1600	2500	400	400	900	600
20000	2000	1600	2000	1600	1700	1300	300	1600	2600	400	400	900	600

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
0.5 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE

RADIUS OF TARGET

PROB.
MIN.
RD

CD 90

CEP

HOB

PEH

	200	300	400	500	600	700	800	900					
2000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	363	25	14	38	5
3000	.9/.9	.9/.9	.8/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	361	38	21	49	8
4000	.9/.9	.9/.9	.8/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	359	51	28	56	10
5000	.9/.9	.9/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	355	64	35	66	13
6000	.9/.9	.9/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	352	77	42	73	15
7000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	348	90	49	84	18
8000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	344	102	56	91	20
9000	.9/.9	.8/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	338	116	63	101	23
10000	.9/.9	.8/.9	.6/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	333	128	70	108	25
11000	.9/.9	.8/.9	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.2	326	141	77	119	28
12000	.9/.9	.8/.8	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.2	320	154	84	126	30
13000	.9/.9	.7/.8	.5/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	311	167	91	136	33
14000	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	304	180	98	143	35
15000	.8/.9	.6/.8	.5/.6	.4/.4	.2/.3	.2/.2	.1/.2	.1/.1	293	193	106	154	38
16000	.7/.9	.6/.8	.5/.6	.3/.4	.2/.3	.2/.2	.1/.2	.1/.1	284	205	112	161	40
17000	.7/.9	.5/.7	.4/.6	.3/.4	.2/.3	.2/.2	.1/.2	.1/.1	271	219	120	171	43
18000	.6/.8	.5/.7	.4/.5	.3/.4	.2/.3	.1/.2	.1/.1	.1/.1	261	231	127	178	45
19000	.5/.8	.4/.7	.3/.5	.2/.4	.2/.3	.1/.2	.1/.1	.1/.1	244	244	134	189	48
20000	.4/.8	.4/.6	.3/.5	.2/.4	.2/.2	.1/.2	.1/.1	.1/.1	232	257	141	196	50

MEDIUM RANGE CANNON 1.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1900	1400	1900	1400	1600	1200	300	1300	2300	400	400	1000	700
3000	1900	1400	1900	1400	1600	1200	300	1400	2300	400	400	1000	700
4000	1900	1500	1900	1500	1600	1200	400	1400	2400	400	400	1000	700
5000	1900	1500	1900	1500	1700	1200	400	1500	2500	400	400	1000	700
6000	2000	1500	2000	1500	1700	1200	400	1500	2500	500	500	1100	700
7000	2000	1500	2000	1500	1700	1300	400	1500	2600	500	500	1100	700
8000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
9000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
10000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1100	700
11000	2000	1600	2000	1600	1800	1300	400	1700	2800	500	500	1100	700
12000	2100	1600	2100	1600	1800	1300	500	1700	2900	500	500	1100	700
13000	2100	1600	2100	1600	1800	1400	500	1800	2900	500	500	1100	800
14000	2100	1600	2100	1600	1800	1400	500	1800	3000	500	500	1100	800
15000	2100	1600	2100	1600	1800	1400	500	1800	3000	500	500	1100	800
16000	2100	1700	2100	1700	1800	1400	500	1900	3000	600	500	1100	800
17000	2100	1700	2100	1700	1900	1400	500	1900	3100	600	600	1100	800
18000	2200	1700	2200	1700	1900	1400	500	1900	3100	600	600	1200	800
19000	2200	1700	2200	1700	1900	1500	500	2000	3200	600	600	1200	800
20000	2200	1700	2200	1700	1900	1500	500	2000	3200	600	600	1200	800

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
1.0 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN.	CD 90	CEP	HOB	PEH
									RD				
	400	500	600	700	800	900	1000	1100					
2000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	450	25	14	49	5
3000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	448	38	21	55	8
4000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	446	51	28	62	10
5000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	443	64	35	73	13
6000	.9/.9	.7/.7	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	441	77	42	80	15
7000	.9/.9	.7/.7	.6/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	436	90	49	90	18
8000	.9/.9	.7/.7	.5/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	433	102	56	97	20
9000	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2	428	116	63	108	23
10000	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2	424	128	70	115	25
11000	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2	418	141	77	125	28
12000	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.1/.2	414	154	84	132	30
13000	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.1/.2	406	167	91	143	33
14000	.7/.8	.6/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.2	401	180	98	150	35
15000	.7/.8	.6/.7	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.2	392	193	106	160	38
16000	.7/.8	.5/.6	.4/.5	.3/.4	.2/.3	.2/.2	.2/.2	.1/.2	386	205	112	167	40
17000	.6/.8	.5/.6	.4/.5	.3/.3	.2/.3	.2/.2	.1/.2	.1/.1	376	219	120	178	43
18000	.6/.8	.5/.6	.4/.5	.3/.3	.2/.3	.2/.2	.1/.2	.1/.1	368	231	127	185	45
19000	.6/.7	.5/.6	.4/.4	.3/.3	.2/.3	.2/.2	.1/.2	.1/.1	357	244	134	195	48
20000	.5/.7	.4/.6	.3/.4	.3/.3	.2/.2	.2/.2	.1/.2	.1/.1	348	257	141	202	50

MEDIUM RANGE CANNON 2.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1300	900
3000	2100	1600	2100	1600	1800	1300	400	1700	2900	500	500	1400	900
4000	2100	1600	2100	1600	1800	1300	400	1700	2900	500	500	1400	900
5000	2100	1600	2100	1600	1800	1300	500	1800	3000	600	500	1400	900
6000	2100	1600	2100	1600	1800	1400	500	1800	3100	600	600	1400	900
7000	2100	1700	2100	1600	1800	1400	500	1900	3200	600	600	1400	900
8000	2200	1700	2200	1700	1800	1400	500	1900	3200	600	600	1400	900
9000	2200	1700	2200	1700	1900	1400	500	1900	3300	600	600	1400	900
10000	2200	1700	2200	1700	1900	1400	500	2000	3300	600	600	1400	900
11000	2200	1700	2200	1700	1900	1400	500	2000	3400	600	600	1400	1000
12000	2200	1700	2200	1700	1900	1500	500	2000	3500	600	600	1400	1000
13000	2200	1800	2200	1700	1900	1500	600	2100	3500	600	600	1500	1000
14000	2300	1800	2300	1800	1900	1500	600	2100	3500	700	700	1500	1000
15000	2300	1800	2300	1800	2000	1500	600	2200	3600	700	700	1500	1000
16000	2300	1800	2300	1800	2000	1500	600	2200	3600	700	700	1500	1000
17000	2300	1800	2300	1800	2000	1500	600	2200	3700	700	700	1500	1000
18000	2300	1800	2300	1800	2000	1600	600	2300	3700	700	700	1500	1000
19000	2300	1900	2300	1800	2000	1600	600	2300	3800	700	700	1500	1000
20000	2400	1900	2400	1900	2000	1600	600	2300	3800	700	700	1500	1000

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
2.0 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	400	500	600	700	800	900	1000	1100					
2000	.9/.9	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	529	25	14	61	5
3000	.9/.9	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	528	38	21	63	8
4000	.9/.9	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	526	51	28	70	10
5000	.9/.9	.9/.9	.7/.7	.6/.6	.4/.5	.4/.4	.3/.3	.2/.2	523	64	35	80	13
6000	.9/.9	.9/.9	.7/.7	.6/.6	.4/.5	.3/.4	.3/.3	.2/.2	521	77	42	87	15
7000	.9/.9	.9/.9	.7/.7	.6/.6	.4/.4	.3/.4	.3/.3	.2/.2	517	90	49	98	18
8000	.9/.9	.8/.9	.7/.7	.6/.6	.4/.4	.3/.4	.3/.3	.2/.2	515	102	56	105	20
9000	.9/.9	.8/.9	.7/.7	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	510	116	63	115	23
10000	.9/.9	.8/.9	.7/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	507	128	70	122	25
11000	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	501	141	77	133	28
12000	.9/.9	.8/.8	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	497	154	84	140	30
13000	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	491	167	91	150	33
14000	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	486	180	98	157	35
15000	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	479	193	106	168	38
16000	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	474	205	112	175	40
17000	.8/.9	.7/.8	.6/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	465	219	120	185	43
18000	.8/.9	.7/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	459	231	127	192	45
19000	.7/.9	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	450	244	134	203	48
20000	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	443	257	141	210	50

FREE FLIGHT ROCKET 5.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	3100	2500	2400	1900	2100	1600	700	2500	4300	800	800	2100	1300
6000	3100	2500	2400	1900	2100	1600	700	2600	4400	900	800	2100	1400
7000	3200	2600	2500	1900	2100	1700	700	2700	4500	900	900	2100	1400
8000	3200	2600	2500	2000	2200	1700	700	2800	4700	900	900	2100	1400
9000	3200	2600	2500	2000	2200	1700	800	2800	4700	900	900	2100	1400
10000	3300	2700	2600	2000	2200	1800	800	2900	4800	900	900	2200	1400
11000	3300	2700	2600	2100	2300	1800	800	3000	4900	1000	900	2200	1400
12000	3300	2700	2600	2100	2300	1800	800	3000	5000	1000	1000	2200	1500
13000	3400	2800	2700	2100	2300	1900	800	3100	5100	1000	1000	2200	1500
14000	3400	2800	2700	2200	2400	1900	900	3200	5200	1000	1000	2200	1500
15000	3400	2800	2700	2200	2400	1900	900	3200	5300	1000	1000	2200	1500
16000	3500	2900	2800	2200	2400	2000	900	3300	5300	1100	1000	2200	1500
17000	3500	2900	2800	2300	2500	2000	900	3400	5400	1100	1000	2300	1500
18000	3500	2900	2800	2300	2500	2000	900	3400	5500	1100	1000	2300	1500
19000	3600	3000	2900	2300	2500	2000	900	3500	5500	1100	1000	2300	1600
20000	3600	3000	2900	2400	2600	2100	900	3500	5600	1100	1100	2300	1600
21000	3600	3000	2900	2400	2600	2100	900	3500	5700	1100	1000	2300	1600
22000	3700	3000	3000	2400	2600	2100	900	3600	5700	1100	1000	2300	1600
23000	3700	3100	3000	2400	2600	2200	900	3600	5700	1100	1000	2400	1600
24000	3700	3100	3000	2500	2700	2200	900	3700	5800	1100	1000	2400	1600
25000	3800	3100	3000	2500	2700	2200	900	3700	5800	1100	1000	2400	1600
26000	3800	3200	3100	2500	2700	2200	800	3700	5800	1100	1000	2400	1600
27000	3800	3200	3100	2600	2800	2300	800	3700	5900	1100	1000	2400	1600
28000	3900	3200	3100	2600	2800	2300	800	3800	5900	1100	900	2400	1700
29000	3900	3300	3200	2600	2800	2300	800	3800	5900	1000	900	2400	1700
30000	3900	3300	3200	2700	2900	2400	700	3800	6000	1000	900	2500	1700
31000	4000	3300	3200	2700	2900	2400	700	3800	6000	1000	1000	2500	1700
32000	4000	3400	3300	2700	2900	2400	700	3800	6000	1000	900	2500	1700
33000	4000	3400	3300	2700	2900	2400	700	3900	6000	1000	900	2500	1700
34000	4100	3400	3300	2800	3000	2500	700	3900	6000	900	800	2500	1700
35000	4100	3400	3300	2800	3000	2500	700	3800	6000	900	800	2500	1700
36000	4100	3500	3400	2800	3000	2500	700	3900	6100	900	800	2500	1700
37000	4100	3500	3400	2900	3100	2500	400	3900	6100	800	800	2500	1700
38000	4200	3500	3400	2900	3100	2600	400	3900	6100	800	500	2600	1700
39000	4200	3600	3500	2900	3100	2600	300	3900	6100	800	500	2600	1700
40000	4200	3600	3500	2900	3100	2600	300	3900	6100	800	500	2600	1700

NOTE - Radiation measuring instruments should be used when approaching 700 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET 5.0 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA					
RANGE	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH	
	500	600	700	800	900	1000	1100	1200						
5000	.9/.9	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	623	128	70	135	25	
6000	.9/.9	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	615	154	84	152	30	
7000	.9/.9	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	606	180	98	170	35	
8000	.9/.9	.8/.8	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	595	205	112	187	40	
9000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.3	583	231	127	205	45	
10000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	570	257	141	222	50	
11000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.2	555	283	155	240	55	
12000	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	538	308	169	257	60	
13000	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	519	334	183	275	65	
14000	.6/.8	.5/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	498	360	197	292	70	
15000	.5/.8	.5/.7	.4/.6	.3/.5	.3/.4	.2/.3	.2/.3	.2/.2	475	385	211	310	75	
16000	.5/.7	.4/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	.1/.2	450	411	225	327	80	
17000	.4/.7	.4/.6	.3/.5	.2/.4	.2/.3	.2/.3	.2/.2	.1/.2	421	437	239	345	85	
18000	.3/.6	.3/.6	.2/.5	.2/.4	.2/.3	.2/.3	.1/.2	.1/.2	388	463	254	362	90	
19000	.3/.6	.2/.5	.2/.5	.2/.4	.2/.3	.1/.3	.1/.2	.1/.2	350	488	268	380	95	
20000	.1/.6	.1/.5	.1/.4	.1/.4	.1/.3	.1/.2	.1/.2	.1/.2	305	514	282	397	100	
21000	.1/.5	.1/.5	.1/.4	.1/.3	.1/.3	.1/.2	.1/.2	.0/.1	250	540	296	415	105	
22000	.0/.5	.0/.4	.1/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	174	566	310	432	110	
23000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	0	591	324	450	115	
24000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	617	338	467	120	
25000	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	0	643	352	485	125	
26000	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	0	668	367	502	130	
27000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	0	694	381	520	135	
28000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	720	395	537	140	
29000	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	746	409	555	145	
30000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	771	423	572	150	
31000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	797	437	590	155	
32000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	823	451	607	160	
33000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	849	465	625	165	
34000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	874	479	642	170	
35000	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	900	494	660	175	
36000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	926	508	677	180	
37000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	951	522	695	185	
38000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	977	536	712	190	
39000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	1003	550	730	195	
40000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	1029	564	747	200	

FREE FLIGHT ROCKET 10.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	4700	3700	2600	2300	2300	1800	800	3300	5600	1100	1100	3000	1900
6000	4700	3700	2700	2300	2300	1800	900	3400	5700	1200	1100	3000	2000
7000	4700	3800	2700	2400	2300	1800	900	3400	5800	1200	1100	3000	2000
8000	4800	3800	2700	2400	2400	1900	900	3500	6000	1200	1100	3100	2000
9000	4800	3800	2800	2400	2400	1900	900	3600	6100	1200	1200	3100	2000
10000	4800	3900	2800	2500	2400	1900	1000	3700	6200	1300	1200	3100	2000
11000	4600	3900	2800	2500	2500	2000	1000	3700	6300	1300	1200	3100	2000
12000	4500	3900	2900	2500	2500	2000	1000	3800	6400	1300	1200	3100	2100
13000	4900	4000	2900	2600	2500	2000	1000	3900	6500	1300	1300	3200	2100
14000	5000	4000	2900	2600	2600	2100	1100	3900	6600	1400	1300	3200	2100
15000	5000	4000	3000	2600	2600	2100	1100	4000	6700	1400	1300	3200	2100
16000	5000	4100	3000	2700	2600	2100	1100	4100	6800	1400	1300	3200	2100
17000	5100	4100	3000	2700	2700	2200	1100	4200	6900	1400	1300	3200	2100
18000	5100	4100	3100	2700	2700	2200	1100	4200	6900	1400	1400	3200	2200
19000	5100	4200	3100	2800	2700	2200	1200	4300	7000	1500	1400	3300	2200
20000	5200	4200	3100	2800	2800	2300	1200	4400	7100	1500	1400	3300	2200
21000	5200	4200	3200	2800	2800	2300	1200	4400	7200	1500	1400	3300	2200
22000	5200	4300	3200	2900	2800	2300	1200	4500	7300	1500	1400	3300	2200
23000	5300	4300	3200	2900	2900	2300	1200	4500	7300	1500	1500	3300	2200
24000	5300	4300	3300	2900	2900	2400	1200	4600	7400	1500	1500	3300	2200
25000	5300	4400	3300	3000	2900	2400	1200	4600	7500	1600	1500	3400	2300
26000	5400	4400	3300	3000	2900	2400	1200	4700	7500	1600	1500	3400	2300
27000	5400	4400	3300	3000	3000	2500	1200	4700	7600	1600	1500	3400	2300
28000	5400	4500	3400	3000	3000	2500	1200	4800	7600	1600	1500	3400	2300
29000	5500	4500	3400	3100	3000	2500	1200	4800	7700	1600	1500	3400	2300
30000	5500	4500	3400	3100	3100	2500	1300	4800	7700	1600	1500	3400	2300
31000	5500	4600	3500	3100	3100	2600	1200	4900	7800	1600	1500	3400	2300
32000	5600	4600	3500	3200	3100	2600	1200	4900	7800	1600	1500	3500	2300
33000	5600	4600	3500	3200	3200	2600	1200	5000	7800	1600	1500	3500	2400
34000	5600	4600	3600	3200	3200	2700	1200	5000	7900	1600	1500	3500	2400
35000	5700	4700	3600	3300	3200	2700	1300	5000	7900	1600	1500	3500	2400
36000	5700	4700	3600	3300	3200	2700	1100	5000	7900	1600	1500	3500	2400
37000	5700	4700	3700	3300	3300	2700	1100	5100	8000	1600	1500	3500	2400
38000	5800	4800	3700	3300	3300	2800	1200	5100	8000	1600	1400	3500	2400
39000	5800	4800	3700	3400	3300	2800	1200	5100	8000	1600	1400	3600	2400
40000	5800	4800	3700	3400	3400	2800	1200	5100	8000	1600	1400	3600	2400

NOTE - Radiation measuring instruments should be used when approaching 700 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET 10.0 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	400	600	800	1000	1200	1400	1600	1800					
5000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	748	128	70	152	25
6000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	741	154	84	169	30
7000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	732	180	98	187	35
8000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	723	205	112	204	40
9000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	712	231	127	222	45
10000	.9/.9	.9/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	701	257	141	239	50
11000	.9/.9	.8/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	688	283	155	257	55
12000	.9/.9	.8/.9	.6/.7	.5/.5	.3/.4	.2/.3	.2/.2	.1/.2	674	308	169	274	60
13000	.9/.9	.8/.9	.6/.7	.4/.5	.3/.4	.2/.3	.2/.2	.1/.2	658	334	183	292	65
14000	.9/.9	.7/.8	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.2	641	360	197	309	70
15000	.8/.9	.7/.8	.5/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.2	623	385	211	327	75
16000	.8/.9	.6/.8	.5/.6	.4/.5	.3/.3	.2/.2	.1/.2	.1/.1	603	411	225	344	80
17000	.7/.9	.6/.8	.5/.6	.3/.5	.2/.3	.2/.2	.1/.2	.1/.1	581	437	239	362	85
18000	.7/.9	.5/.7	.4/.6	.3/.4	.2/.3	.2/.2	.1/.2	.1/.1	556	463	254	379	90
19000	.6/.8	.5/.7	.4/.6	.3/.4	.2/.3	.1/.2	.1/.2	.1/.1	530	488	268	397	95
20000	.5/.8	.4/.7	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	.1/.1	501	514	282	414	100
21000	.4/.8	.4/.6	.2/.5	.2/.4	.2/.3	.1/.2	.1/.1	.1/.1	468	540	296	432	105
22000	.3/.7	.3/.6	.2/.5	.2/.4	.1/.3	.1/.2	.1/.1	.1/.1	431	566	310	449	110
23000	.2/.7	.2/.6	.2/.5	.2/.3	.1/.2	.1/.2	.1/.1	.0/.1	389	591	324	467	115
24000	.1/.7	.1/.5	.1/.4	.1/.3	.1/.2	.1/.2	.0/.1	.0/.1	340	617	338	484	120
25000	.0/.6	.1/.5	.1/.4	.1/.3	.1/.2	.0/.2	.0/.1	.0/.1	281	643	352	502	125
26000	.0/.6	.0/.5	.1/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	201	668	367	519	130
27000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	24	694	381	537	135
28000	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	0	720	395	554	140
29000	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	746	409	572	145
30000	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	771	423	589	150
31000	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	797	437	607	155
32000	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	823	451	624	160
33000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	849	465	642	165
34000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	874	479	659	170
35000	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	900	494	677	175
36000	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	926	508	694	180
37000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	951	522	712	185
38000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	977	536	729	190
39000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	1003	550	747	195
40000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	1029	564	764	200

FREE FLIGHT ROCKET 50.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
5000	10400	7800	5400	4500	3200	2800	1500	5500	9500	2300	2000	6300	4000
6000	10500	7900	5400	4600	3300	2800	1500	5600	9600	2300	2100	6300	4000
7000	10500	8000	5500	4700	3300	2900	1500	5700	9800	2300	2100	6400	4100
8000	10600	8000	5500	4700	3400	2900	1600	5800	9900	2400	2100	6400	4100
9000	10600	8000	5600	4800	3400	2900	1600	5900	10100	2400	2100	6500	4100
10000	10600	8100	5600	4800	3500	3000	1600	6000	10200	2400	2200	6500	4100
11000	10700	8100	5700	4800	3500	3000	1700	6100	10300	2500	2200	6500	4200
12000	10700	8200	5700	4900	3500	3100	1700	6100	10500	2500	2200	6500	4200
13000	10800	8200	5700	4900	3600	3100	1700	6200	10600	2500	2200	6600	4200
14000	10800	8200	5800	4900	3600	3100	1700	6300	10700	2500	2300	6600	4200
15000	10800	8300	5800	5000	3600	3200	1800	6400	10900	2600	2300	6600	4300
16000	10900	8300	5800	5000	3700	3200	1800	6400	11000	2600	2300	6600	4300
17000	10900	8300	5900	5000	3700	3200	1800	6500	11100	2600	2300	6600	4300
18000	10900	8400	5900	5100	3700	3300	1800	6600	11200	2600	2400	6700	4300
19000	11000	8400	5900	5100	3800	3300	1900	6700	11300	2700	2400	6700	4300
20000	11000	8400	6000	5100	3800	3300	1900	6700	11400	2700	2400	6700	4300
21000	11000	8500	6000	5200	3800	3300	1900	6800	11500	2700	2400	6700	4400
22000	11100	8500	6000	5200	3900	3400	1900	6900	11600	2700	2500	6700	4400
23000	11100	8500	6100	5200	3900	3400	2000	6900	11700	2800	2500	6800	4400
24000	11100	8600	6100	5300	3900	3400	2000	7000	11800	2800	2500	6800	4400
25000	11200	8600	6100	5300	4000	3500	2000	7100	11900	2800	2500	6800	4400
26000	11200	8600	6200	5300	4000	3500	2000	7200	12000	2800	2500	6800	4400
27000	11200	8700	6200	5400	4000	3500	2100	7200	12100	2900	2600	6800	4500
28000	11300	8700	6200	5400	4100	3600	2100	7300	12200	2900	2600	6800	4500
29000	11300	8700	6300	5400	4100	3600	2100	7400	12200	2900	2600	6900	4500
30000	11400	8800	6300	5500	4100	3600	2100	7500	12300	2900	2600	6900	4500
31000	11400	8800	6300	5500	4200	3700	2100	7500	12400	3000	2600	6900	4500
32000	11400	8800	6400	5500	4200	3700	2200	7600	12500	3000	2700	6900	4500
33000	11500	8900	6400	5600	4200	3700	2200	7700	12600	3000	2700	6900	4600
34000	11500	8900	6400	5600	4300	3700	2200	7700	12700	3000	2700	6900	4600
35000	11500	8900	6500	5600	4300	3800	2200	7800	12800	3000	2700	7000	4600
36000	11600	9000	6500	5700	4300	3800	2200	7900	12800	3100	2700	7000	4600
37000	11600	9000	6500	5700	4400	3800	2300	7900	12900	3100	2700	7000	4600
38000	11600	9000	6600	5700	4400	3900	2300	8000	13000	3100	2700	7000	4600
39000	11700	9100	6600	5800	4400	3900	2300	8000	13100	3100	2700	7000	4600
40000	11700	9100	6600	5800	4500	3900	2300	8100	13100	3100	2800	7000	4700

NOTE - Radiation measuring instruments should be used when approaching 1,000 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET 50.0 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	800	1000	1200	1400	1600	1800	2000	2200					
5000	.9/.9	.9/.9	.7/.7	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	1019	128	70	207	25
6000	.9/.9	.9/.9	.7/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	1013	154	84	222	30
7000	.9/.9	.8/.9	.7/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	1005	180	98	239	35
8000	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	997	205	112	257	40
9000	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	988	231	127	274	45
10000	.9/.9	.8/.8	.7/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	978	257	141	292	50
11000	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	968	283	155	309	55
12000	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	956	308	169	327	60
13000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	944	334	183	344	65
14000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	931	360	197	362	70
15000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	926	385	211	379	75
16000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	924	411	225	397	80
17000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	932	437	239	414	85
18000	.8/.9	.7/.8	.6/.6	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	923	463	254	432	90
19000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	932	488	268	449	95
20000	.7/.9	.6/.7	.5/.6	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	927	514	282	467	100
21000	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	926	540	296	484	105
22000	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	936	566	310	502	110
23000	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	928	591	324	519	115
24000	.6/.8	.5/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	924	617	338	537	120
25000	.6/.8	.5/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	933	643	352	554	125
26000	.5/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	936	668	367	572	130
27000	.5/.8	.4/.7	.4/.5	.3/.4	.3/.3	.3/.3	.2/.2	.2/.2	906	694	381	589	135
28000	.4/.7	.3/.6	.3/.5	.2/.4	.2/.3	.1/.3	.1/.2	.1/.2	639	720	395	607	140
29000	.3/.7	.3/.6	.2/.5	.2/.4	.1/.3	.1/.3	.1/.2	.1/.2	585	746	409	624	145
30000	.2/.7	.2/.6	.2/.5	.2/.4	.1/.3	.1/.3	.1/.2	.1/.2	532	771	423	642	150
31000	.2/.6	.2/.6	.2/.5	.1/.4	.1/.3	.1/.2	.1/.2	.0/.2	485	797	437	659	155
32000	.1/.6	.1/.5	.1/.5	.1/.4	.1/.3	.1/.2	.0/.2	.0/.2	431	823	451	677	160
33000	.1/.6	.1/.5	.1/.4	.1/.4	.1/.3	.0/.2	.0/.2	.0/.2	367	849	465	694	165
34000	.0/.6	.1/.5	.1/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.2	305	874	479	712	170
35000	.0/.5	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	248	900	494	729	175
36000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	173	926	508	747	180
37000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	0	951	522	764	185
38000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	0	977	536	782	190
39000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	1003	550	799	195
40000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	1029	564	817	200

FREE FLIGHT ROCKET 100.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	14400	10600	7300	6100	4400	3700	1900	7200	12400	3000	2700	8600	5500
6000	14500	10700	7300	6100	4400	3700	2000	7300	12500	3100	2700	8700	5500
7000	14500	10700	7300	6200	4400	3800	2000	7400	12700	3100	2800	8700	5500
8000	14600	10800	7400	6200	4500	3800	2000	7500	12800	3100	2800	8700	5500
9000	14600	10800	7400	6300	4500	3800	2000	7600	13000	3200	2800	8700	5500
10000	14600	10800	7400	6300	4500	3900	2100	7700	13100	3200	2800	8800	5600
11000	14700	10900	7500	6300	4600	3900	2100	7700	13200	3200	2900	8800	5600
12000	14700	10900	7500	6400	4600	3900	2100	7800	13400	3200	2900	8800	5600
13000	14700	10900	7500	6400	4600	4000	2100	7900	13500	3300	2900	8800	5600
14000	14800	11000	7600	6400	4700	4000	2200	8000	13600	3300	2900	8800	5600
15000	14800	11000	7600	6500	4700	4000	2200	8000	13800	3300	3000	8800	5700
16000	14800	11000	7600	6500	4700	4100	2200	8100	13900	3300	3000	8900	5700
17000	14900	11100	7700	6500	4800	4100	2300	8200	14000	3400	3000	8900	5700
18000	14900	11100	7700	6600	4800	4100	2300	8200	14100	3400	3000	8900	5700
19000	14900	11100	7700	6600	4800	4200	2300	8300	14200	3400	3100	8900	5700
20000	15000	11200	7800	6600	4900	4200	2300	8400	14300	3500	3100	8900	5700
21000	15000	11200	7800	6700	4900	4200	2400	8500	14400	3500	3100	9000	5800
22000	15000	11200	7800	6700	4900	4300	2400	8500	14500	3500	3100	9000	5800
23000	15100	11300	7900	6700	5000	4300	2400	8600	14600	3500	3100	9000	5800
24000	15100	11300	7900	6800	5000	4300	2400	8700	14700	3600	3200	9000	5800
25000	15100	11300	7900	6800	5000	4300	2400	8800	14800	3600	3200	9000	5800
26000	15200	11400	8000	6800	5100	4400	2500	8800	14900	3600	3200	9000	5800
27000	15200	11400	8000	6900	5100	4400	2500	8900	14900	3600	3200	9100	5900
28000	15200	11400	8000	6900	5100	4400	2500	9000	15000	3700	3300	9100	5900
29000	15300	11500	8100	6900	5200	4500	2500	9000	15100	3700	3300	9100	5900
30000	15300	11500	8100	7000	5200	4500	2600	9100	15200	3700	3300	9100	5900
31000	15300	11500	8100	7000	5200	4500	2600	9200	15300	3700	3300	9100	5900
32000	15400	11600	8200	7000	5300	4600	2600	9300	15400	3700	3400	9100	5900
33000	15400	11600	8200	7100	5300	4600	2600	9300	15500	3800	3400	9200	6000
34000	15500	11600	8200	7100	5300	4600	2700	9400	15600	3800	3400	9200	6000
35000	15500	11700	8300	7100	5400	4700	2700	9500	15700	3800	3400	9200	6000
36000	15500	11700	8300	7100	5400	4700	2700	9500	15700	3800	3400	9200	6000
37000	15600	11700	8300	7200	5400	4700	2700	9600	15800	3900	3500	9200	6000
38000	15600	11800	8400	7200	5400	4700	2700	9700	15900	3900	3500	9200	6000
39000	15600	11800	8400	7200	5500	4800	2800	9700	16000	3900	3500	9300	6100
40000	15700	11800	8400	7300	5500	4800	2800	9800	16100	3900	3500	9300	6100

NOTE - Radiation measuring instruments should be used when approaching 1,000 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET
100.0 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	200	400	800	1200	1600	2000	2400	2800					
5000	.9/.9	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	1098	128	70	358	25
6000	.9/.9	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	1089	154	84	376	30
7000	.9/.9	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	1091	180	98	393	35
8000	.9/.9	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	1091	205	112	411	40
9000	.9/.9	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	1092	231	127	428	45
10000	.9/.9	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	1091	257	141	446	50
11000	.5/.9	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	1091	283	155	463	55
12000	.5/.9	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	1091	308	169	481	60
13000	.9/.9	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	1093	334	183	498	65
14000	.9/.9	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	1089	360	197	516	70
15000	.9/.9	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	1092	385	211	533	75
16000	.5/.9	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	1095	411	225	551	80
17000	.9/.9	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	1092	437	239	568	85
18000	.5/.9	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	1089	463	254	585	90
19000	.9/.9	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	1091	488	268	603	95
20000	.9/.9	.9/.9	.9/.9	.7/.8	.5/.5	.3/.4	.2/.2	.2/.2	1093	514	282	621	100
21000	.9/.9	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	1095	540	296	638	105
22000	.9/.9	.9/.9	.8/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	1098	566	310	656	110
23000	.9/.9	.9/.9	.8/.9	.7/.8	.5/.5	.3/.4	.2/.2	.2/.2	1100	591	324	673	115
24000	.9/.9	.9/.9	.8/.9	.6/.8	.5/.5	.3/.4	.2/.3	.2/.2	1091	617	338	691	120
25000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.5	.3/.3	.2/.2	.2/.2	1089	643	352	708	125
26000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.5	.3/.4	.2/.2	.2/.2	1091	668	367	726	130
27000	.9/.9	.9/.9	.7/.9	.6/.7	.5/.5	.3/.3	.2/.2	.2/.2	1092	694	381	743	135
28000	.9/.9	.9/.9	.7/.9	.5/.7	.4/.5	.3/.3	.2/.2	.2/.2	1093	720	395	761	140
29000	.9/.9	.8/.9	.6/.9	.5/.7	.4/.5	.3/.3	.2/.2	.2/.2	1095	746	409	778	145
30000	.9/.9	.8/.9	.6/.8	.4/.7	.4/.5	.3/.3	.2/.2	.2/.2	1096	771	423	796	150
31000	.8/.9	.7/.9	.5/.8	.3/.7	.2/.5	.2/.3	.1/.2	.1/.2	783	797	437	813	155
32000	.7/.9	.6/.9	.4/.8	.3/.6	.2/.5	.1/.3	.1/.2	.1/.2	729	823	451	831	160
33000	.6/.9	.5/.9	.4/.8	.3/.6	.2/.5	.1/.3	.1/.2	.1/.2	672	849	465	848	165
34000	.4/.8	.4/.8	.3/.7	.2/.6	.2/.4	.1/.3	.1/.2	.0/.2	610	874	479	866	170
35000	.2/.8	.3/.8	.2/.7	.2/.6	.1/.4	.1/.3	.1/.2	.0/.2	540	900	494	883	175
36000	.1/.8	.2/.8	.2/.7	.1/.6	.1/.4	.1/.3	.0/.2	.0/.2	494	926	508	901	180
37000	.0/.8	.1/.8	.1/.7	.1/.5	.1/.4	.1/.3	.0/.2	.0/.1	444	951	522	918	185
38000	.0/.7	.0/.7	.1/.6	.1/.5	.1/.4	.0/.3	.0/.2	.0/.1	392	977	536	936	190
39000	.0/.7	.0/.7	.0/.6	.1/.5	.0/.4	.0/.3	.0/.2	.0/.1	337	1003	550	953	195
40000	.0/.7	.0/.7	.0/.6	.0/.5	.0/.4	.0/.2	.0/.2	.0/.1	272	1029	564	971	200

LIGHT GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2 KT	2200	1700	2200	1700	1900	1500	500	2100	3500	600	600	1400	1000
5 KT	3100	2500	2400	1900	2100	1600	700	2600	4400	800	800	2100	1400
10 KT	4700	3700	2700	2300	2300	1800	900	3400	5700	1200	1100	3000	1900
20 KT	6900	5400	3700	3200	2500	2000	1100	4300	7300	1600	1500	4300	2800

NOTE - Radiation measuring instruments should be used when approaching 400-700 meters of ground zero because of induced contamination of the soil.

LIGHT GUIDED MISSILE

PROMPT CASUALTIES TO PROTECTED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
YIELD		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
2 KT	400	500	600	700	800	900	1000	1100	496	182	100	143	30
	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2					
5 KT	200	400	600	800	1000	1200	1400	1600	614	182	100	157	30
	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2					
10 KT	600	800	1000	1200	1400	1600	1800	2000	741	182	100	170	30
	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					
20 KT	800	1000	1200	1400	1600	1800	2000	2200	870	182	100	187	30
	.9/.9	.7/.7	.5/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2					

Range span 10,000 - 50,000 meters

MEDIUM GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
10 KT	5500	4500	3500	3100	3100	2600	1300	3900	6400	1600	1500	3500	2400
20 KT	7700	6200	4500	4000	3300	2800	1600	4900	8100	2100	1900	4800	3200
50 KT	11300	8700	6200	5400	4100	3600	2000	6200	10400	2800	2500	6800	4500
100 KT	15100	11300	8000	6800	5100	4500	2300	7500	12600	3400	3100	9000	5800
200 KT	20700	15000	10500	8900	6600	5700	2900	9600	16300	4500	4000	12100	7800

NOTE - Radiation measuring instruments should be used when approaching 700-1,000 meters of ground zero because of induced contamination of the soil.

MEDIUM GUIDED MISSILE

PROMPT CASUALTIES TO PROTECTED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

		EFFECTIVENESS							ACCURACY DATA				
YIELD		RADIUS OF TARGET							PROB. MIN. RD	CD 90	CEP	HOB	PEH
10 KT	400	600	800	1000	1200	1400	1600	1800	701	911	500	240	50
	.2/.7	.3/.6	.3/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2					
20 KT	400	600	800	1000	1200	1400	1600	1800	834	911	500	257	50
	.4/.8	.4/.7	.4/.6	.4/.5	.3/.5	.3/.4	.3/.3	.2/.2					
50 KT	800	1000	1200	1400	1600	1800	2000	2200	981	911	500	286	50
	.5/.7	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2					
100 KT	800	1200	1600	2000	2400	2800	3200	3600	1098	911	500	315	50
	.6/.8	.5/.6	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1					
200 KT	1200	1600	2000	2400	2800	3200	3600	4000	1349	911	500	502	50
	.6/.8	.5/.6	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1					

Range span 50,000 - 150,000 meters

HEAVY GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
200 KT	21800	16100	11500	9900	7600	6700	3500	10700	17800	5100	4600	12700	8300
500 KT	32400	22800	16100	13700	10300	8900	4400	13800	23100	6800	5800	18300	11900
1000 KT	44200	30000	20900	17800	13200	11300	5200	16800	28200	8500	7000	24400	15700
2000 KT	48900	32800	22900	19400	14300	12300	5600	18200	30700	9200	7600	26800	17200
5000 KT	67000	43100	30200	25600	18700	15900	6800	22500	38100	11500	9500	35900	22900

NOTE - Radiation measuring instruments should be used when approaching 1,000-1,400 meters of ground zero because of induced contamination of the soil.

HEAVY GUIDED MISSILE

PROMPT CASUALTIES TO PROTECTED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									PROB. MIN. RD	ACCURACY DATA			
YIELD	RADIUS OF TARGET									CD 90	GEP	HOB	PEH
200 KT	800 .2/.7	1400 .3/.5	1800 .3/.5	2200 .3/.4	2600 .2/.3	3000 .2/.2	3400 .2/.2	4000 .1/.1	1365	1822	1000	677	100
500 KT	800 .5/.8	1400 .4/.7	2000 .4/.6	2600 .4/.5	3200 .3/.3	3800 .2/.2	4400 .2/.2	5000 .1/.1	1842	1822	1000	795	100
1000 KT	1600 .6/.8	2200 .5/.7	2800 .5/.6	3400 .4/.5	4000 .3/.3	4600 .3/.3	5200 .2/.2	5800 .2/.2	2311	1822	1000	910	100
2000 KT	1000 .8/.9	2000 .6/.8	3000 .5/.6	4000 .4/.4	5000 .3/.3	6000 .2/.2	7000 .1/.1	8000 .1/.1	2506	1822	1000	1056	100
5000 KT	3000 .7/.8	5000 .4/.4	6000 .3/.3	7000 .2/.2	8000 .2/.2	9000 .1/.1	10000 .1/.1	12000 .1/.1	3158	1822	1000	1308	100

Range span 50,000 - 300,000 meters

AIRCRAFT DELIVERED WEAPONS

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5 KT	3400	2800	2700	2200	2400	1900	900	3000	4900	1000	1000	2200	1500
10 KT	5000	4000	3000	2600	2600	2100	1100	3700	6200	1300	1300	3200	2100
20 KT	1200	5700	4100	3500	2800	2300	1200	4700	7900	1800	1600	4500	2900
50 KT	10800	8200	5800	4900	3600	3100	1700	6000	10200	2500	2200	6600	4200
100 KT	14700	10900	7500	6400	4600	4000	2100	7300	12500	3200	2900	8700	5600
200 KT	20300	14600	10000	8400	6100	5200	2600	9400	16100	4200	3700	11800	7500
500 KT	30800	21200	14500	12100	8800	7400	3500	12500	21300	5800	4900	17400	11000
1000 KT	42400	28300	19200	16100	11600	9700	4300	15400	26400	7500	6200	23400	14800
2000 KT	47500	31300	21400	17900	12900	10800	4800	17600	30200	8400	6800	26000	16400
5000 KT	65500	41600	28700	24100	17200	14400	6000	21900	37700	10700	8700	35100	22100

NOTE - Radiation measuring instruments should be used when approaching 400-1,400 meters of ground zero because of induced contamination of the soil.

AIRCRAFT DELIVERED WEAPONS

PROMPT CASUALTIES TO PROTECTED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

YIELD	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	200	400	600	800	1000	1200	1400	1600		CD 90	CEP	HOB	PEH
5 KT	.8/.9	.6/.8	.5/.7	.4/.5	.3/.4	.2/.2	.2/.2	.1/.1	561	455	250	227	50
10 KT	.8/.9	.7/.8	.6/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	701	455	250	240	50
20 KT	.9/.9	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	834	455	250	257	50
50 KT	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	981	455	250	286	50
100 KT	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	1098	455	250	315	50
200 KT	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.3/.3	.2/.2	.2/.2	1349	455	250	502	50
500 KT	.9/.9	.9/.9	.8/.8	.6/.6	.4/.5	.3/.3	.3/.3	.2/.2	1826	455	250	620	50
1000 KT	.9/.9	.8/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	2297	455	250	735	50
2000 KT	.9/.9	.4/.4	.3/.3	.2/.2	.1/.1	.1/.1	.1/.1	.1/.1	2506	455	250	1056	100
5000 KT	.6/.6	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	.1/.1	.1/.1	3158	455	250	1308	100

CHAPTER 7

COVERAGE TABLES FOR

DELAYED CASUALTIES TO PROTECTED PERSONNEL

	Page
Short Range Cannon 0.5 KT.....	113
1.0 KT.....	115
Medium Range Cannon 0.5 KT.....	117
1.0 KT.....	119
2.0 KT.....	121
Free Flight Rocket 5.0 KT.....	123
10.0 KT.....	125
50.0 KT.....	127
100.0 KT.....	129
Light Guided Missile 2, 5, 10, and 20 KT	131
Medium Guided Missile 10, 20, 50, 100, and 200 KT	133
Heavy Guided Missile 200, 500, 1,000, 2,000, and 5,000 KT	135
Aircraft Delivered Weapons 5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, and 5,000 KT.....	137

TABLES OF MAXIMUM TARGET RADIUS (.3 Probable Minimum Coverage)

(Distances in Meters)

LOW AIRBURST

DELAYED CASUALTIES TO PROTECTED PERSONNEL

Range	Short Range Cannon		Medium Range Cannon			Free Flight Rocket			
	.5	1	.5	1	2	5	10	50	100
2000	1000	1200	1000	1200	1400				
3000	1000	1200	1000	1200	1400				
4000	1000	1200	1000	1200	1400				
5000	1000	1200	1000	1200	1400	1600	2000	2400	2800
6000	1000	1200	1000	1200	1400	1600	1800	2400	2800
7000	1000	1200	1000	1200	1400	1600	1800	2400	2400
8000	1000	1200	1000	1200	1400	1600	1800	2400	2400
9000	1000	1200	1000	1200	1400	1600	1800	2400	2400
10000	1000	1200	1000	1200	1400	1600	1800	2400	2400
12000			1000	1200	1400	1400	1600	2400	2400
14000			1000	1200	1400	1400	1600	2400	2400
16000			900	1200	1400	1400	1600	2400	2400
18000			900	1100	1200	1400	1600	2200	2400
20000			900	1000	1200	1200	1600	2000	2400
22000						1000	1400	2000	2400
24000						800	1400	2000	2400
26000						600	1200	2000	2400
28000							1000	2000	2400
30000							600	1600	2000
32000								1600	1600
34000								1400	1600
36000								1200	1200
38000								800	800
40000									

Light Guided Missile			
2	5	10	20
1400	1600	1800	2000

Medium Guided Missile				
10	20	50	100	200
1800	2000	2400	2800	2800

Heavy Guided Missile				
200	500	1000	2000	5000
2200	3600	4600	5000	6000

Aircraft Delivered Weapons									
5	10	20	50	100	200	500	1000	2000	5000
1600	1800	2000	2400	2800	2800	3600	4500	5000	6000

NOTE: Blank spaces indicate either the target is out of range or a probable minimum coverage of .3 cannot be obtained.

SHORT RANGE CANNON 0.5 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1700	1300	1700	1300	1400	1000	300	1000	1800	300	300	700	500
3000	1700	1300	1700	1300	1500	1100	300	1100	1800	300	300	700	500
4000	1800	1300	1800	1300	1500	1100	300	1100	1900	300	300	700	500
5000	1800	1300	1800	1300	1500	1100	300	1200	2000	300	300	800	500
6000	1800	1300	1800	1300	1500	1100	300	1200	2000	400	400	800	500
7000	1800	1300	1800	1300	1500	1100	300	1300	2100	400	400	800	500
8000	1800	1400	1800	1400	1500	1100	300	1300	2100	400	400	800	500
9000	1800	1400	1800	1400	1600	1200	300	1300	2200	400	400	800	500
10000	1900	1400	1900	1400	1600	1200	400	1400	2200	400	400	800	500

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

SHORT RANGE CANNON
0.5 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	500	600	700	800	900	1000	1100	1200					
2000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	532	25	14	38	5
3000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	531	38	21	49	8
4000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	529	51	28	56	10
5000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	527	64	35	66	13
6000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	525	77	42	73	15
7000	.9/.9	.7/.7	.6/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	522	90	49	84	18
8000	.9/.9	.7/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	519	102	56	91	20
9000	.8/.9	.7/.7	.6/.6	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	515	116	63	101	23
10000	.8/.9	.7/.7	.6/.6	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	512	128	70	108	25

SHORT RANGE CANNON 1.0 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1500	1400	1900	1400	1600	1200	300	1300	2300	400	400	1000	700
3000	1900	1400	1900	1400	1600	1200	300	1400	2300	400	400	1000	700
4000	1900	1500	1900	1500	1600	1200	400	1400	2400	400	400	1000	700
5000	1900	1500	1900	1500	1700	1200	400	1500	2500	400	400	1000	700
6000	2000	1500	2000	1500	1700	1200	400	1500	2500	500	500	1100	700
7000	2000	1500	2000	1500	1700	1300	400	1500	2600	500	500	1100	700
8000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
9000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
10000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1100	700

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

SHORT RANGE CANNON
1.0 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	200	400	600	800	1000	1200	1400	1600		CD 90	CEP	HOB	PEH
2000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	635	25	14	49	5
3000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	634	38	21	55	8
4000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	633	51	28	62	10
5000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	631	64	35	73	13
6000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	629	77	42	80	15
7000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	626	90	49	90	18
8000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	624	102	56	97	20
9000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	620	116	63	108	23
10000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	618	128	70	115	25

MEDIUM RANGE CANNON 0.5 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1700	1300	1700	1300	1400	1000	300	1000	1800	300	300	700	500
3000	1700	1300	1700	1300	1500	1100	300	1100	1800	300	300	700	500
4000	1800	1300	1800	1300	1500	1100	300	1100	1900	300	300	700	500
5000	1800	1300	1800	1300	1500	1100	300	1200	2000	300	300	800	500
6000	1800	1300	1800	1300	1500	1100	300	1200	2000	400	400	800	500
7000	1800	1300	1800	1300	1500	1100	300	1300	2100	400	400	800	500
8000	1800	1400	1800	1400	1500	1100	300	1300	2100	400	400	800	500
9000	1800	1400	1800	1400	1600	1200	300	1300	2200	400	400	800	500
10000	1900	1400	1900	1400	1600	1200	400	1400	2200	400	400	800	500
11000	1900	1400	1900	1400	1600	1200	400	1400	2300	400	400	800	600
12000	1900	1400	1900	1400	1600	1200	400	1400	2300	400	400	800	600
13000	1900	1400	1900	1400	1600	1200	400	1500	2400	400	400	800	600
14000	1900	1500	1900	1500	1600	1200	400	1500	2400	400	400	800	600
15000	1900	1500	1900	1500	1700	1300	400	1500	2400	400	400	800	600
16000	2000	1500	2000	1500	1700	1300	400	1500	2500	400	400	800	600
17000	2000	1500	2000	1500	1700	1300	400	1600	2500	400	400	900	600
18000	2000	1500	2000	1500	1700	1300	400	1600	2500	400	400	900	600
19000	2000	1500	2000	1500	1700	1300	300	1600	2500	400	400	900	600
20000	2000	1600	2000	1600	1700	1300	300	1600	2600	400	400	900	600

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
0.5 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	500	600	700	800	900	1000	1100	1200		CD 90	CEP	HOB	PEH
2000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	532	25	14	38	5
3000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	531	38	21	49	8
4000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	529	51	28	56	10
5000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	527	64	35	66	13
6000	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	525	77	42	73	15
7000	.9/.9	.7/.7	.6/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	522	90	49	84	18
8000	.9/.9	.7/.7	.6/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	519	102	56	91	20
9000	.8/.9	.7/.7	.6/.6	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	515	116	63	101	23
10000	.8/.9	.7/.7	.6/.6	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	512	128	70	108	25
11000	.8/.9	.7/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	507	141	77	119	28
12000	.8/.8	.7/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	504	154	84	126	30
13000	.8/.8	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	498	167	91	136	33
14000	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	494	180	98	143	35
15000	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	487	193	106	154	38
16000	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	482	205	112	161	40
17000	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	474	219	120	171	43
18000	.7/.8	.6/.7	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	469	231	127	178	45
19000	.7/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	.2/.2	460	244	134	189	48
20000	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.2	453	257	141	196	50

MEDIUM RANGE CANNON 1.0 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN DECIDUOUS	CONIFEROUS	FIRES DRY FUEL	GREEN FUEL
	NEG	EMER	NEG	EMER	NEG	EMER							
2000	1900	1400	1900	1400	1600	1200	300	1300	2300	400	400	1000	700
3000	1900	1400	1900	1400	1600	1200	300	1400	2300	400	400	1000	700
4000	1900	1500	1900	1500	1600	1200	400	1400	2400	400	400	1000	700
5000	1900	1500	1900	1500	1700	1200	400	1500	2500	400	400	1000	700
6000	2000	1500	2000	1500	1700	1200	400	1500	2500	500	500	1100	700
7000	2000	1500	2000	1500	1700	1300	400	1500	2600	500	500	1100	700
8000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
9000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
10000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1100	700
11000	2000	1600	2000	1600	1800	1300	400	1700	2800	500	500	1100	700
12000	2100	1600	2100	1600	1800	1300	500	1700	2900	500	500	1100	700
13000	2100	1600	2100	1600	1800	1400	500	1800	2900	500	500	1100	800
14000	2100	1600	2100	1600	1800	1400	500	1800	3000	500	500	1100	800
15000	2100	1600	2100	1600	1800	1400	500	1800	3000	500	500	1100	800
16000	2100	1700	2100	1700	1800	1400	500	1900	3000	600	500	1100	800
17000	2100	1700	2100	1700	1900	1400	500	1900	3100	600	600	1100	800
18000	2200	1700	2200	1700	1900	1400	500	1900	3100	600	600	1200	800
19000	2200	1700	2200	1700	1900	1500	500	2000	3200	600	600	1200	800
20000	2200	1700	2200	1700	1900	1500	500	2000	3200	600	600	1200	800

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
1.0 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	200	400	600	800	1000	1200	1400	1600					
2000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	635	25	14	49	5
3000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	634	38	21	55	8
4000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	633	51	28	62	10
5000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	631	64	35	73	13
6000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	629	77	42	80	15
7000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	626	90	49	90	18
8000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	624	102	56	97	20
9000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	620	116	63	108	23
10000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	618	128	70	115	25
11000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	614	141	77	125	28
12000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	611	154	84	132	30
13000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.2	606	167	91	143	33
14000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.2	602	180	98	150	35
15000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.2	596	193	106	160	38
16000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.2	592	205	112	167	40
17000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.2/.3	.2/.2	.1/.2	585	219	120	178	43
18000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.2/.3	.2/.2	.1/.2	581	231	127	185	45
19000	.9/.9	.9/.9	.7/.8	.5/.6	.3/.4	.2/.3	.2/.2	.1/.1	573	244	134	195	48
20000	.9/.9	.9/.9	.7/.8	.5/.6	.3/.4	.2/.3	.2/.2	.1/.1	568	257	141	202	50

MEDIUM RANGE CANNON 2.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1300	900
3000	2100	1600	2100	1600	1800	1300	400	1700	2900	500	500	1400	900
4000	2100	1600	2100	1600	1800	1300	400	1700	2900	500	500	1400	900
5000	2100	1600	2100	1600	1800	1300	500	1800	3000	600	500	1400	900
6000	2100	1600	2100	1600	1800	1400	500	1800	3100	600	600	1400	900
7000	2100	1700	2100	1600	1800	1400	500	1900	3200	600	600	1400	900
8000	2200	1700	2200	1700	1800	1400	500	1900	3200	600	600	1400	900
9000	2200	1700	2200	1700	1900	1400	500	1900	3300	600	600	1400	900
10000	2200	1700	2200	1700	1900	1400	500	2000	3300	600	600	1400	900
11000	2200	1700	2200	1700	1900	1400	500	2000	3400	600	600	1400	1000
12000	2200	1700	2200	1700	1900	1500	500	2000	3500	600	600	1400	1000
13000	2200	1800	2200	1700	1900	1500	600	2100	3500	600	600	1500	1000
14000	2300	1800	2300	1800	1900	1500	600	2100	3500	700	700	1500	1000
15000	2300	1800	2300	1800	2000	1500	600	2200	3600	700	700	1500	1000
16000	2300	1800	2300	1800	2000	1500	600	2200	3600	700	700	1500	1000
17000	2300	1800	2300	1800	2000	1500	600	2200	3700	700	700	1500	1000
18000	2300	1800	2300	1800	2000	1600	600	2300	3700	700	700	1500	1000
19000	2300	1900	2300	1800	2000	1600	600	2300	3800	700	700	1500	1000
20000	2400	1900	2400	1900	2000	1600	600	2300	3800	700	700	1500	1000

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
2.0 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	400	600	800	1000	1200	1400	1600	1800					
2000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	728	25	14	61	5
3000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	727	38	21	63	8
4000	.9/.9	.9/.9	.8/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	726	51	28	70	10
5000	.9/.9	.9/.9	.8/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	724	64	35	80	13
6000	.9/.9	.9/.9	.8/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	722	77	42	87	15
7000	.9/.9	.9/.9	.8/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	719	90	49	98	18
8000	.9/.9	.9/.9	.8/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	717	102	56	105	20
9000	.9/.9	.9/.9	.8/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	714	116	63	115	23
10000	.9/.9	.9/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	712	128	70	122	25
11000	.9/.9	.9/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	708	141	77	133	28
12000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	705	154	84	140	30
13000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	701	167	91	150	33
14000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	697	180	98	157	35
15000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	692	193	106	168	38
16000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	689	205	112	175	40
17000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.2/.3	.2/.2	.2/.2	683	219	120	185	43
18000	.9/.9	.8/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	679	231	127	192	45
19000	.9/.9	.8/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	672	244	134	203	48
20000	.9/.9	.8/.9	.6/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	668	257	141	210	50

FREE FLIGHT ROCKET 5.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	3100	2500	2400	1900	2100	1600	700	2500	4300	800	800	2100	1300
6000	3100	2500	2400	1900	2100	1600	700	2600	4400	900	800	2100	1400
7000	3200	2600	2500	1900	2100	1700	700	2700	4500	900	900	2100	1400
8000	3200	2600	2500	2000	2200	1700	700	2800	4700	900	900	2100	1400
9000	3200	2600	2500	2000	2200	1700	800	2800	4700	900	900	2100	1400
10000	3300	2700	2600	2000	2200	1800	800	2900	4800	900	900	2200	1400
11000	3300	2700	2600	2100	2300	1800	800	3000	4900	1000	900	2200	1400
12000	3300	2700	2600	2100	2300	1800	800	3000	5000	1000	1000	2200	1500
13000	3400	2800	2700	2100	2300	1900	800	3100	5100	1000	1000	2200	1500
14000	3400	2800	2700	2200	2400	1900	900	3200	5200	1000	1000	2200	1500
15000	3400	2800	2700	2200	2400	1900	900	3200	5300	1000	1000	2200	1500
16000	3500	2900	2800	2200	2400	2000	900	3300	5300	1100	1000	2200	1500
17000	3500	2900	2800	2300	2500	2000	900	3400	5400	1100	1000	2300	1500
18000	3500	2900	2800	2300	2500	2000	900	3400	5500	1100	1000	2300	1500
19000	3600	3000	2900	2300	2500	2000	900	3500	5500	1100	1000	2300	1600
20000	3600	3000	2900	2400	2600	2100	900	3500	5600	1100	1100	2300	1600
21000	3600	3000	2900	2400	2600	2100	900	3500	5700	1100	1000	2300	1600
22000	3700	3000	3000	2400	2600	2100	900	3600	5700	1100	1000	2300	1600
23000	3700	3100	3000	2400	2600	2200	900	3600	5700	1100	1000	2400	1600
24000	3700	3100	3000	2500	2700	2200	900	3700	5800	1100	1000	2400	1600
25000	3800	3100	3000	2500	2700	2200	900	3700	5800	1100	1000	2400	1600
26000	3800	3200	3100	2500	2700	2200	800	3700	5800	1100	1000	2400	1600
27000	3800	3200	3100	2600	2800	2300	800	3700	5900	1100	1000	2400	1600
28000	3900	3200	3100	2600	2800	2300	800	3800	5900	1100	900	2400	1700
29000	3900	3300	3200	2600	2800	2300	800	3800	5900	1000	900	2400	1700
30000	3900	3300	3200	2700	2900	2400	700	3800	6000	1000	900	2500	1700
31000	4000	3300	3200	2700	2900	2400	700	3800	6000	1000	1000	2500	1700
32000	4000	3400	3300	2700	2900	2400	700	3800	6000	1000	900	2500	1700
33000	4000	3400	3300	2700	2900	2400	700	3900	6000	1000	900	2500	1700
34000	4100	3400	3300	2800	3000	2500	700	3900	6000	900	800	2500	1700
35000	4100	3400	3300	2800	3000	2500	700	3800	6000	900	800	2500	1700
36000	4100	3500	3400	2800	3000	2500	700	3900	6100	900	800	2500	1700
37000	4100	3500	3400	2900	3100	2500	400	3900	6100	800	800	2500	1700
38000	4200	3500	3400	2900	3100	2600	400	3900	6100	800	500	2600	1700
39000	4200	3600	3500	2900	3100	2600	300	3900	6100	800	500	2600	1700
40000	4200	3600	3500	2900	3100	2600	300	3900	6100	800	500	2600	1700

NOTE - Radiation measuring instruments should be used when approaching 700 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET
5.0 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	400	600	800	1000	1200	1400	1600	1800					
5000	.9/.9	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	843	128	70	135	25
6000	.9/.9	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	837	154	84	152	30
7000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	830	180	98	170	35
8000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	822	205	112	187	40
9000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	814	231	127	205	45
10000	.9/.9	.9/.9	.8/.8	.6/.7	.5/.5	.3/.4	.3/.3	.2/.2	804	257	141	222	50
11000	.9/.9	.9/.9	.8/.8	.6/.7	.5/.5	.3/.4	.3/.3	.2/.2	793	283	155	240	55
12000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.5	.3/.3	.2/.3	.2/.2	782	308	169	257	60
13000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.5	.3/.3	.2/.3	.2/.2	769	334	183	275	65
14000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.5	.3/.3	.2/.3	.2/.2	755	360	197	292	70
15000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	740	385	211	310	75
16000	.9/.9	.8/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	724	411	225	327	80
17000	.9/.9	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	706	437	239	345	85
18000	.8/.9	.7/.8	.6/.7	.4/.6	.3/.4	.3/.3	.2/.2	.2/.2	687	463	254	362	90
19000	.8/.9	.6/.8	.5/.7	.4/.5	.3/.4	.2/.3	.2/.2	.1/.2	666	488	268	380	95
20000	.7/.9	.6/.8	.5/.7	.4/.5	.3/.4	.2/.3	.2/.2	.1/.2	644	514	282	397	100
21000	.7/.9	.5/.8	.4/.6	.3/.5	.3/.4	.2/.3	.2/.2	.1/.2	620	540	296	415	105
22000	.6/.8	.5/.7	.4/.6	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	593	566	310	432	110
23000	.5/.8	.4/.7	.4/.6	.3/.5	.2/.3	.2/.3	.1/.2	.1/.2	564	591	324	450	115
24000	.4/.8	.4/.7	.3/.6	.2/.5	.2/.3	.2/.2	.1/.2	.1/.1	533	617	338	467	120
25000	.3/.8	.3/.7	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	.1/.1	497	643	352	485	125
26000	.2/.7	.3/.6	.2/.5	.2/.4	.2/.3	.1/.2	.1/.2	.1/.1	458	668	367	502	130
27000	.2/.7	.2/.6	.1/.5	.1/.4	.1/.3	.1/.2	.1/.2	.1/.1	413	694	381	520	135
28000	.1/.6	.1/.6	.1/.5	.1/.4	.1/.3	.1/.2	.1/.2	.0/.1	361	720	395	537	140
29000	.0/.6	.0/.5	.1/.4	.1/.4	.1/.3	.0/.2	.0/.1	.0/.1	298	746	409	555	145
30000	.0/.6	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.1	.0/.1	214	771	423	572	150
31000	.0/.5	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	37	797	437	590	155
32000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	823	451	607	160
33000	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	849	465	625	165
34000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	874	479	642	170
35000	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	900	494	660	175
36000	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	926	508	677	180
37000	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	951	522	695	185
38000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	977	536	712	190
39000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	1003	550	730	195
40000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	1029	564	747	200

FREE FLIGHT ROCKET 10.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	4700	3700	2600	2300	2300	1800	800	3300	5600	1100	1100	3000	1900
6000	4700	3700	2700	2300	2300	1800	900	3400	5700	1200	1100	3000	2000
7000	4700	3800	2700	2400	2300	1800	900	3400	5800	1200	1100	3000	2000
8000	4800	3800	2700	2400	2400	1900	900	3500	6000	1200	1100	3100	2000
9000	4800	3800	2800	2400	2400	1900	900	3600	6100	1200	1200	3100	2000
10000	4800	3900	2800	2500	2400	1900	1000	3700	6200	1300	1200	3100	2000
11000	4900	3900	2800	2500	2500	2000	1000	3700	6300	1300	1200	3100	2000
12000	4900	3900	2900	2500	2500	2000	1000	3800	6400	1300	1200	3100	2100
13000	4900	4000	2900	2600	2500	2000	1000	3900	6500	1300	1300	3200	2100
14000	5000	4000	2900	2600	2600	2100	1100	3900	6600	1400	1300	3200	2100
15000	5000	4000	3000	2600	2600	2100	1100	4000	6700	1400	1300	3200	2100
16000	5000	4100	3000	2700	2600	2100	1100	4100	6800	1400	1300	3200	2100
17000	5100	4100	3000	2700	2700	2200	1100	4200	6900	1400	1300	3200	2100
18000	5100	4100	3100	2700	2700	2200	1100	4200	6900	1400	1400	3200	2200
19000	5100	4200	3100	2800	2700	2200	1200	4300	7000	1500	1400	3300	2200
20000	5200	4200	3100	2800	2800	2300	1200	4400	7100	1500	1400	3300	2200
21000	5200	4200	3200	2800	2800	2300	1200	4400	7200	1500	1400	3300	2200
22000	5200	4300	3200	2900	2800	2300	1200	4500	7300	1500	1400	3300	2200
23000	5300	4300	3200	2900	2900	2300	1200	4500	7300	1500	1500	3300	2200
24000	5300	4300	3300	2900	2900	2400	1200	4600	7400	1500	1500	3300	2200
25000	5300	4400	3300	3000	2900	2400	1200	4600	7500	1600	1500	3400	2300
26000	5400	4400	3300	3000	2900	2400	1200	4700	7500	1600	1500	3400	2300
27000	5400	4400	3300	3000	3000	2500	1200	4700	7600	1600	1500	3400	2300
28000	5400	4500	3400	3000	3000	2500	1200	4800	7600	1600	1500	3400	2300
29000	5500	4500	3400	3100	3000	2500	1200	4800	7700	1600	1500	3400	2300
30000	5500	4500	3400	3100	3100	2500	1300	4800	7700	1600	1500	3400	2300
31000	5500	4600	3500	3100	3100	2600	1200	4900	7800	1600	1500	3400	2300
32000	5600	4600	3500	3200	3100	2600	1200	4900	7800	1600	1500	3500	2300
33000	5600	4600	3500	3200	3200	2600	1200	5000	7800	1600	1500	3500	2400
34000	5600	4600	3600	3200	3200	2700	1200	5000	7900	1600	1500	3500	2400
35000	5700	4700	3600	3300	3200	2700	1300	5000	7900	1600	1500	3500	2400
36000	5700	4700	3600	3300	3200	2700	1100	5000	7900	1600	1500	3500	2400
37000	5700	4700	3700	3300	3300	2700	1100	5100	8000	1600	1500	3500	2400
38000	5800	4800	3700	3300	3300	2800	1200	5100	8000	1600	1400	3500	2400
39000	5800	4800	3700	3400	3300	2800	1200	5100	8000	1600	1400	3600	2400
40000	5800	4800	3700	3400	3400	2800	1200	5100	8000	1600	1400	3600	2400

NOTE - Radiation measuring instruments should be used when approaching 700 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET 10.0 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	400	600	800	1000	1200	1400	1600	2000					
5000	.9/.9	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	981	128	70	152	25
6000	.9/.9	.9/.9	.9/.9	.8/.8	.7/.7	.5/.5	.4/.4	.2/.3	976	154	84	169	30
7000	.9/.9	.9/.9	.9/.9	.8/.8	.7/.7	.5/.5	.4/.4	.2/.3	970	180	98	187	35
8000	.9/.9	.9/.9	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.2/.3	962	205	112	204	40
9000	.9/.9	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.2/.2	955	231	127	222	45
10000	.9/.9	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.2/.2	946	257	141	239	50
11000	.9/.9	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.2/.2	936	283	155	257	55
12000	.9/.9	.9/.9	.9/.9	.7/.8	.6/.6	.5/.5	.3/.4	.2/.2	926	308	169	274	60
13000	.9/.9	.9/.9	.8/.9	.7/.8	.6/.6	.4/.5	.3/.4	.2/.2	915	334	183	292	65
14000	.9/.9	.9/.9	.8/.9	.7/.8	.6/.6	.4/.5	.3/.4	.2/.2	903	360	197	309	70
15000	.9/.9	.9/.9	.8/.9	.7/.8	.5/.6	.4/.5	.3/.3	.2/.2	890	385	211	327	75
16000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	876	411	225	344	80
17000	.9/.9	.9/.9	.7/.8	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	861	437	239	362	85
18000	.9/.9	.8/.9	.7/.8	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	845	463	254	379	90
19000	.9/.9	.8/.9	.7/.8	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	827	488	268	397	95
20000	.9/.9	.8/.9	.6/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.2	809	514	282	414	100
21000	.9/.9	.7/.9	.6/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.2	789	540	296	432	105
22000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.5	.3/.4	.2/.3	.2/.2	768	566	310	449	110
23000	.8/.9	.6/.8	.5/.7	.5/.6	.3/.5	.3/.4	.2/.3	.1/.2	745	591	324	467	115
24000	.7/.9	.6/.8	.5/.7	.4/.6	.3/.5	.3/.4	.2/.3	.1/.2	721	617	338	484	120
25000	.6/.9	.5/.8	.5/.7	.4/.6	.3/.5	.2/.4	.2/.3	.1/.2	694	643	352	502	125
26000	.6/.8	.5/.8	.4/.7	.4/.6	.3/.5	.2/.3	.2/.3	.1/.2	666	668	367	519	130
27000	.5/.8	.4/.8	.4/.7	.3/.5	.2/.4	.2/.3	.2/.3	.1/.2	636	694	381	537	135
28000	.4/.8	.4/.7	.3/.6	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	602	720	395	554	140
29000	.3/.8	.3/.7	.3/.6	.2/.5	.2/.4	.2/.3	.1/.2	.1/.2	566	746	409	572	145
30000	.2/.7	.3/.7	.2/.6	.2/.5	.2/.4	.1/.3	.1/.2	.1/.2	525	771	423	589	150
31000	.2/.7	.2/.6	.1/.6	.1/.5	.1/.4	.1/.3	.1/.2	.1/.1	480	797	437	607	155
32000	.1/.7	.1/.6	.1/.5	.1/.4	.1/.4	.1/.3	.1/.2	.0/.1	429	823	451	624	160
33000	.0/.6	.0/.6	.1/.5	.1/.4	.1/.3	.1/.3	.1/.2	.0/.1	368	849	465	642	165
34000	.0/.6	.0/.6	.0/.5	.1/.4	.1/.3	.0/.3	.0/.2	.0/.1	294	874	479	659	170
35000	.0/.6	.0/.5	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.1	188	900	494	677	175
36000	.0/.5	.0/.5	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	0	926	508	694	180
37000	.0/.5	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	0	951	522	712	185
38000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	0	977	536	729	190
39000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	0	1003	550	747	195
40000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	0	1029	564	764	200

FREE FLIGHT ROCKET 50.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
5000	10400	7800	5400	4500	3200	2800	1500	5500	9500	2300	2000	6300	4000
6000	10500	7900	5400	4600	3300	2800	1500	5600	9600	2300	2100	6300	4000
7000	10500	8000	5500	4700	3300	2900	1500	5700	9800	2300	2100	6400	4100
8000	10600	8000	5500	4700	3400	2900	1600	5800	9900	2400	2100	6400	4100
9000	10600	8000	5600	4800	3400	2900	1600	5900	10100	2400	2100	6500	4100
10000	10600	8100	5600	4800	3500	3000	1600	6000	10200	2400	2200	6500	4100
11000	10700	8100	5700	4800	3500	3000	1700	6100	10300	2500	2200	6500	4200
12000	10700	8200	5700	4900	3500	3100	1700	6100	10500	2500	2200	6500	4200
13000	10800	8200	5700	4900	3600	3100	1700	6200	10600	2500	2200	6600	4200
14000	10800	8200	5800	4900	3600	3100	1700	6300	10700	2500	2300	6600	4200
15000	10800	8300	5800	5000	3600	3200	1800	6400	10900	2600	2300	6600	4300
16000	10900	8300	5800	5000	3700	3200	1800	6400	11000	2600	2300	6600	4300
17000	10900	8300	5900	5000	3700	3200	1800	6500	11100	2600	2300	6600	4300
18000	10900	8400	5900	5100	3700	3300	1800	6600	11200	2600	2400	6700	4300
19000	11000	8400	5900	5100	3800	3300	1900	6700	11300	2700	2400	6700	4300
20000	11000	8400	6000	5100	3800	3300	1900	6700	11400	2700	2400	6700	4300
21000	11000	8500	6000	5200	3800	3300	1900	6800	11500	2700	2400	6700	4400
22000	11100	8500	6000	5200	3900	3400	1900	6900	11600	2700	2500	6700	4400
23000	11100	8500	6100	5200	3900	3400	2000	6900	11700	2800	2500	6800	4400
24000	11100	8600	6100	5300	3900	3400	2000	7000	11800	2800	2500	6800	4400
25000	11200	8600	6100	5300	4000	3500	2000	7100	11900	2800	2500	6800	4400
26000	11200	8600	6200	5300	4000	3500	2000	7200	12000	2800	2500	6800	4400
27000	11200	8700	6200	5400	4000	3500	2100	7200	12100	2900	2600	6800	4500
28000	11300	8700	6200	5400	4100	3600	2100	7300	12200	2900	2600	6800	4500
29000	11300	8700	6300	5400	4100	3600	2100	7400	12200	2900	2600	6900	4500
30000	11400	8800	6300	5500	4100	3600	2100	7500	12300	2900	2600	6900	4500
31000	11400	8800	6300	5500	4200	3700	2100	7500	12400	3000	2600	6900	4500
32000	11400	8800	6400	5500	4200	3700	2200	7600	12500	3000	2700	6900	4500
33000	11500	8900	6400	5600	4200	3700	2200	7700	12600	3000	2700	6900	4600
34000	11500	8900	6400	5600	4300	3700	2200	7700	12700	3000	2700	6900	4600
35000	11500	8900	6500	5600	4300	3800	2200	7800	12800	3000	2700	7000	4600
36000	11600	9000	6500	5700	4300	3800	2200	7900	12800	3100	2700	7000	4600
37000	11600	9000	6500	5700	4400	3800	2300	7900	12900	3100	2700	7000	4600
38000	11600	9000	6600	5700	4400	3900	2300	8000	13000	3100	2700	7000	4600
39000	11700	9100	6600	5800	4400	3900	2300	8000	13100	3100	2700	7000	4600
40000	11700	9100	6600	5800	4500	3900	2300	8100	13100	3100	2800	7000	4700

NOTE - Radiation measuring instruments should be used when approaching 1,000 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET
50.0 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	600	800	1200	1600	2000	2400	2800	3200					
5000	.9/.9	.9/.9	.9/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	1282	128	70	207	25
6000	.9/.9	.9/.9	.9/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	1277	154	84	222	30
7000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1271	180	98	239	35
8000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	205	112	257	40
9000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1258	231	127	274	45
10000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1250	257	141	292	50
11000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1242	283	155	309	55
12000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1233	308	169	327	60
13000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1223	334	183	344	65
14000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1213	360	197	362	70
15000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.2	1202	385	211	379	75
16000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.2	1191	411	225	397	80
17000	.9/.9	.9/.9	.8/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.2	1179	437	239	414	85
18000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.2/.3	.2/.2	.1/.2	1166	463	254	432	90
19000	.9/.9	.9/.9	.7/.8	.5/.6	.3/.4	.2/.3	.2/.2	.1/.2	1152	488	268	449	95
20000	.9/.9	.9/.9	.7/.8	.5/.6	.3/.4	.2/.3	.2/.2	.1/.1	1138	514	282	467	100
21000	.9/.9	.9/.9	.7/.8	.5/.6	.3/.4	.2/.3	.2/.2	.1/.1	1122	540	296	484	105
22000	.9/.9	.9/.9	.7/.8	.5/.6	.3/.4	.2/.2	.2/.2	.1/.1	1106	566	310	502	110
23000	.9/.9	.8/.9	.6/.8	.5/.5	.3/.4	.2/.2	.2/.2	.1/.1	1089	591	324	519	115
24000	.9/.9	.8/.9	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1072	617	338	537	120
25000	.9/.9	.8/.9	.6/.7	.4/.5	.3/.3	.2/.2	.1/.2	.1/.1	1053	643	352	554	125
26000	.8/.9	.8/.9	.6/.7	.4/.5	.3/.3	.2/.2	.1/.2	.1/.1	1033	668	367	572	130
27000	.8/.9	.7/.9	.5/.7	.4/.5	.3/.3	.2/.2	.1/.2	.1/.1	1012	694	381	589	135
28000	.8/.9	.7/.9	.5/.7	.4/.5	.3/.3	.2/.2	.1/.2	.1/.1	990	720	395	607	140
29000	.7/.9	.7/.8	.5/.7	.3/.5	.2/.3	.2/.2	.1/.2	.1/.1	967	746	409	624	145
30000	.7/.9	.6/.8	.5/.7	.3/.5	.2/.3	.2/.2	.1/.2	.1/.1	942	771	423	642	150
31000	.7/.9	.6/.8	.4/.6	.3/.5	.2/.3	.2/.2	.1/.2	.1/.1	917	797	437	659	155
32000	.6/.9	.5/.8	.4/.6	.3/.4	.2/.3	.1/.2	.1/.1	.1/.1	889	823	451	677	160
33000	.5/.8	.5/.8	.4/.6	.3/.4	.2/.3	.1/.2	.1/.1	.1/.1	860	849	465	694	165
34000	.5/.8	.5/.8	.4/.6	.2/.4	.2/.3	.1/.2	.1/.1	.1/.1	829	874	479	712	170
35000	.4/.8	.4/.7	.3/.6	.2/.4	.2/.3	.1/.2	.1/.1	.1/.1	796	900	494	729	175
36000	.4/.8	.4/.7	.3/.6	.2/.4	.2/.3	.1/.2	.1/.1	.1/.1	761	926	508	747	180
37000	.3/.8	.3/.7	.2/.5	.2/.4	.1/.3	.1/.2	.1/.1	.1/.1	723	951	522	764	185
38000	.3/.7	.3/.7	.2/.5	.2/.4	.1/.3	.1/.2	.1/.1	.0/.1	681	977	536	782	190
39000	.2/.7	.2/.6	.2/.5	.2/.4	.1/.2	.1/.2	.1/.1	.0/.1	637	1003	550	799	195
40000	.1/.7	.2/.6	.1/.5	.1/.4	.1/.2	.1/.2	.0/.1	.0/.1	587	1029	564	817	200

FREE FLIGHT ROCKET 100.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	14400	10600	7300	6100	4400	3700	1900	7200	12400	3000	2700	8600	5500
6000	14500	10700	7300	6100	4400	3700	2000	7300	12500	3100	2700	8700	5500
7000	14500	10700	7300	6200	4400	3800	2000	7400	12700	3100	2800	8700	5500
8000	14600	10800	7400	6200	4500	3800	2000	7500	12800	3100	2800	8700	5500
9000	14600	10800	7400	6300	4500	3800	2000	7600	13000	3200	2800	8700	5500
10000	14600	10800	7400	6300	4500	3900	2100	7700	13100	3200	2800	8800	5600
11000	14700	10900	7500	6300	4600	3900	2100	7700	13200	3200	2900	8800	5600
12000	14700	10900	7500	6400	4600	3900	2100	7800	13400	3200	2900	8800	5600
13000	14700	10900	7500	6400	4600	4000	2100	7900	13500	3300	2900	8800	5600
14000	14800	11000	7600	6400	4700	4000	2200	8000	13600	3300	2900	8800	5600
15000	14800	11000	7600	6500	4700	4000	2200	8000	13800	3300	3000	8800	5700
16000	14800	11000	7600	6500	4700	4100	2200	8100	13900	3300	3000	8900	5700
17000	14900	11100	7700	6500	4800	4100	2300	8200	14000	3400	3000	8900	5700
18000	14900	11100	7700	6600	4800	4100	2300	8200	14100	3400	3000	8900	5700
19000	14900	11100	7700	6600	4800	4200	2300	8300	14200	3400	3100	8900	5700
20000	15000	11200	7800	6600	4900	4200	2300	8400	14300	3500	3100	8900	5700
21000	15000	11200	7800	6700	4900	4200	2400	8500	14400	3500	3100	9000	5800
22000	15000	11200	7800	6700	4900	4300	2400	8500	14500	3500	3100	9000	5800
23000	15100	11300	7900	6700	5000	4300	2400	8600	14600	3500	3100	9000	5800
24000	15100	11300	7900	6800	5000	4300	2400	8700	14700	3600	3200	9000	5800
25000	15100	11300	7900	6800	5000	4300	2400	8800	14800	3600	3200	9000	5800
26000	15200	11400	8000	6800	5100	4400	2500	8800	14900	3600	3200	9000	5800
27000	15200	11400	8000	6900	5100	4400	2500	8900	14900	3600	3200	9100	5900
28000	15200	11400	8000	6900	5100	4400	2500	9000	15000	3700	3300	9100	5900
29000	15300	11500	8100	6900	5200	4500	2500	9000	15100	3700	3300	9100	5900
30000	15300	11500	8100	7000	5200	4500	2600	9100	15200	3700	3300	9100	5900
31000	15300	11500	8100	7000	5200	4500	2600	9200	15300	3700	3300	9100	5900
32000	15400	11600	8200	7000	5300	4600	2600	9300	15400	3700	3400	9100	5900
33000	15400	11600	8200	7100	5300	4600	2600	9300	15500	3800	3400	9200	6000
34000	15500	11600	8200	7100	5300	4600	2700	9400	15600	3800	3400	9200	6000
35000	15500	11700	8300	7100	5400	4700	2700	9500	15700	3800	3400	9200	6000
36000	15500	11700	8300	7100	5400	4700	2700	9500	15700	3800	3400	9200	6000
37000	15600	11700	8300	7200	5400	4700	2700	9600	15800	3900	3500	9200	6000
38000	15600	11800	8400	7200	5400	4700	2700	9700	15900	3900	3500	9200	6000
39000	15600	11800	8400	7200	5500	4800	2800	9700	16000	3900	3500	9300	6100
40000	15700	11800	8400	7300	5500	4800	2800	9800	16100	3900	3500	9300	6100

NOTE - Radiation measuring instruments should be used when approaching 1,000 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET
100.0 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	800	1200	1600	2000	2400	2800	3200	3600					
5000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	1382	128	70	358	25
6000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	1375	154	84	376	30
7000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.2/.2	1366	180	98	393	35
8000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	1357	205	112	411	40
9000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	1347	231	127	428	45
10000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.3	.2/.2	.1/.2	1337	257	141	446	50
11000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.2	1327	283	155	463	55
12000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1315	308	169	481	60
13000	.9/.9	.9/.9	.7/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1303	334	183	498	65
14000	.9/.9	.8/.9	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1290	360	197	516	70
15000	.9/.9	.8/.9	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1277	385	211	533	75
16000	.9/.9	.8/.9	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1263	411	225	551	80
17000	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1248	437	239	568	85
18000	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1236	463	254	586	90
19000	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1246	488	268	603	95
20000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1239	514	282	621	100
21000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1248	540	296	638	105
22000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1236	566	310	656	110
23000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1252	591	324	673	115
24000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1246	617	338	691	120
25000	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1235	643	352	708	125
26000	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1243	668	367	726	130
27000	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1226	694	381	743	135
28000	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.2	.1/.1	1198	720	395	761	140
29000	.7/.9	.6/.8	.4/.6	.3/.4	.2/.3	.2/.2	.1/.2	.1/.1	1156	746	409	778	145
30000	.7/.9	.5/.7	.4/.6	.3/.4	.2/.3	.2/.2	.1/.2	.1/.1	1106	771	423	796	150
31000	.7/.9	.5/.7	.3/.5	.2/.4	.2/.3	.1/.2	.1/.1	.1/.1	947	797	437	813	155
32000	.6/.8	.5/.7	.3/.5	.2/.4	.2/.3	.1/.2	.1/.1	.1/.1	916	823	451	831	160
33000	.6/.8	.4/.7	.3/.5	.2/.4	.1/.3	.1/.2	.1/.1	.1/.1	883	849	465	848	165
34000	.5/.8	.4/.7	.3/.5	.2/.3	.1/.2	.1/.2	.1/.1	.1/.1	848	874	479	866	170
35000	.5/.8	.3/.6	.2/.5	.2/.3	.1/.2	.1/.2	.1/.1	.1/.1	811	900	494	883	175
36000	.4/.8	.3/.6	.2/.5	.2/.3	.1/.2	.1/.2	.1/.1	.0/.1	771	926	508	901	180
37000	.4/.7	.2/.6	.2/.5	.1/.3	.1/.2	.1/.2	.1/.1	.0/.1	728	951	522	918	185
38000	.3/.7	.2/.6	.2/.4	.1/.3	.1/.2	.1/.2	.0/.1	.0/.1	681	977	536	936	190
39000	.2/.7	.2/.6	.2/.4	.1/.3	.1/.2	.1/.2	.0/.1	.0/.1	630	1003	550	953	195
40000	.1/.7	.2/.5	.1/.4	.1/.3	.1/.2	.0/.2	.0/.1	.0/.1	573	1029	564	971	200

LIGHT GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2 KT	2200	1700	2200	1700	1900	1500	500	2100	3500	600	600	1400	1000
5 KT	3100	2500	2400	1900	2100	1600	700	2600	4400	800	800	2100	1400
10 KT	4700	3700	2700	2300	2300	1800	900	3400	5700	1200	1100	3000	1900
20 KT	6900	5400	3700	3200	2500	2000	1100	4300	7300	1600	1500	4300	2800

NOTE - Radiation measuring instruments should be used when approaching 400-700 meters of ground zero because of induced contamination of the soil.

LIGHT GUIDED MISSILE

DELAYED CASUALTIES TO PROTECTED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									PROB. MIN. RD	ACCURACY DATA			
YIELD	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
2 KT	600	800	1000	1200	1400	1600	1800	2000	704	182	100	143	30
	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					
5 KT	800	1000	1200	1400	1600	1800	2000	2200	836	182	100	157	30
	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					
10 KT	1000	1200	1400	1600	1800	2000	2200	2400	976	182	100	170	30
	.8/.8	.7/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2					
20 KT	600	800	1200	1600	2000	2400	2800	3200	1119	182	100	187	30
	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1					

Range span 10,000 - 50,000 meters

MEDIUM GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
10 KT	5500	4500	3500	3100	3100	2600	1300	3900	6400	1600	1500	3500	2400
20 KT	7700	6200	4500	4000	3300	2800	1600	4900	8100	2100	1900	4800	3200
50 KT	11300	8700	6200	5400	4100	3600	2000	6200	10400	2800	2500	6800	4500
100 KT	15100	11300	8000	6800	5100	4500	2300	7500	12600	3400	3100	9000	5800
200 KT	20700	15000	10500	8900	6600	5700	2900	9600	16300	4500	4000	12100	7800

NOTE - Radiation measuring instruments should be used when approaching 700-1,000 meters of ground zero because of induced contamination of the soil.

DELAYED CASUALTIES TO PROTECTED PERSONNEL LOW AIR BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

EFFECTIVENESS									PROB. MIN. RD	CD 90	CEP	HOB	PEH
YIELD	RADIUS OF TARGET												
10 KT	1000	1200	1400	1600	1800	2000	2200	2400	946	911	500	240	50
	.4/.6	.4/.5	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	.2/.2					
20 KT	600	800	1200	1600	2000	2400	2800	3200	1091	911	500	257	50
	.6/.9	.6/.8	.5/.6	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1					
50 KT	600	800	1200	1600	2000	2400	2800	3200	1252	911	500	286	50
	.8/.9	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2					
100 KT	800	1200	1600	2000	2400	2800	3200	3600	1380	911	500	315	50
	.8/.9	.6/.8	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2					
200 KT	1200	1600	2000	2400	2800	3200	3600	4000	1468	911	500	502	50
	.7/.8	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					

Range span 50,000 - 150,000 meters

HEAVY GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
200 KT	21800	16100	11500	9900	7600	6700	3500	10700	17800	5100	4600	12700	8300
500 KT	32400	22800	16100	13700	10300	8900	4400	13800	23100	6800	5800	18300	11900
1000 KT	44200	30000	20900	17800	13200	11300	5200	16800	28200	8500	7000	24400	15700
2000 KT	48900	32800	22900	19400	14300	12300	5600	18200	30700	9200	7600	26800	17200
5000 KT	67000	43100	30200	25600	18700	15900	6800	22500	38100	11500	9500	35900	22900

NOTE - Radiation measuring instruments should be used when approaching 1,000-1,400 meters of ground zero because of induced contamination of the soil.

HEAVY GUIDED MISSILE

DELAYED CASUALTIES TO PROTECTED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

YIELD	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	800	1400	1800	2200	2600	3000	3400	4000					
200 KT	.2/.7	.3/.6	.3/.5	.3/.4	.2/.3	.2/.2	.2/.2	.1/.1	1418	1822	1000	677	100
500 KT	1800	2400	3000	3600	4200	4800	5400	6000	1841	1822	1000	795	100
	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1					
1000 KT	2800	3400	4000	4600	5200	5800	6400	7000	2311	1822	1000	910	100
	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1					
2000 KT	3000	4000	5000	6000	7000	8000	9000	10000	2506	1822	1000	1056	100
	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	.1/.1	.1/.1	.1/.1					
5000 KT	3000	5000	6000	7000	8000	9000	10000	12000	3158	1822	1000	1308	100
	.7/.8	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	.1/.1					

Range span 50,000 - 300,000 meters

AIRCRAFT DELIVERED WEAPONS

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5 KT	3400	2800	2700	2200	2400	1900	900	3000	4900	1000	1000	2200	1500
10 KT	5000	4000	3000	2600	2600	2100	1100	3700	6200	1300	1300	3200	2100
20 KT	1200	5700	4100	3500	2800	2300	1200	4700	7900	1800	1600	4500	2900
50 KT	10800	8200	5800	4900	3600	3100	1700	6000	10200	2500	2200	6600	4200
100 KT	14700	10900	7500	6400	4600	4000	2100	7300	12500	3200	2900	8700	5600
200 KT	20300	14600	10000	8400	6100	5200	2600	9400	16100	4200	3700	11800	7500
500 KT	30800	21200	14500	12100	8800	7400	3500	12500	21300	5800	4900	17400	11000
1000 KT	42400	28300	19200	16100	11600	9700	4300	15400	26400	7500	6200	23400	14800
2000 KT	47500	31300	21400	17900	12900	10800	4800	17600	30200	8400	6800	26000	16400
5000 KT	65500	41600	28700	24100	17200	14400	6000	21900	37700	10700	8700	35100	22100

NOTE - Radiation measuring instruments should be used when approaching 400-1,400 meters of ground zero because of induced contamination of the soil.

AIRCRAFT DELIVERED WEAPONS

DELAYED CASUALTIES TO PROTECTED PERSONNEL LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
YIELD	800	1000	1200	1400	1600	1800	2000	2200					
5 KT	.7/.8	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1	798	455	250	227	50
10 KT	1000	1200	1400	1600	1800	2000	2200	2400	946	455	250	240	50
	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					
20 KT	600	800	1200	1600	2000	2400	2800	3200	1091	455	250	257	50
	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1					
50 KT	1000	1400	1600	1800	2000	2200	2400	2800	1252	455	250	286	50
	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2					
100 KT	800	1200	1600	2000	2400	2800	3200	3600	1380	455	250	315	50
	.9/.9	.8/.9	.7/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2					
200 KT	1200	1600	2000	2400	2800	3200	3600	4000	1468	455	250	502	50
	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					
500 KT	1200	1600	2000	2400	2800	3200	3600	4000	1826	455	250	620	50
	.9/.9	.9/.9	.8/.8	.6/.6	.4/.5	.3/.3	.3/.3	.2/.2					
1000 KT	2000	2500	3000	3500	4000	4500	5000	5500	2297	455	250	735	50
	.9/.9	.8/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2					
2000 KT	2000	4000	5000	6000	7000	8000	9000	11000	2506	455	250	1056	100
	.9/.9	.4/.4	.3/.3	.2/.2	.1/.1	.1/.1	.1/.1	.1/.1					
5000 KT	2000	3000	4000	5000	6000	7000	8000	9000	3158	455	250	1308	100
	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					

CHAPTER 8
 COVERAGE TABLES FOR
 MODERATE DAMAGE TO WHEELED VEHICLES

	Page
Short Range Cannon 0.5 KT.....	141
1.0 KT.....	143
Medium Range Cannon 0.5 KT.....	145
1.0 KT.....	147
2.0 KT.....	149
Free Flight Rocket 5.0 KT.....	151
10.0 KT.....	153
50.0 KT.....	155
100.0 KT.....	157
Light Guided Missile 2, 5, 10, and 20 KT.....	159
Medium Guided Missile 10, 20, 50, 100, and 200 KT.....	161
Heavy Guided Missile 200, 500, 1,000, 2,000, and 5,000 KT.....	163
Aircraft Delivered Weapons 5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, and 5,000 KT.....	165

TABLES OF MAXIMUM TARGET RADIUS (.3 Probable Minimum Coverage)

(Distances in Meters)

LOW AIRBURST

MODERATE DAMAGE TO WHEELED VEHICLES

Range	Short Range Cannon		Medium Range Cannon			Free Flight Rocket			
	.5	1	.5	1	2	5	10	50	100
2000	400	550	400	550	750				
3000	400	550	400	550	750				
4000	400	550	400	550	750				
5000	400	550	400	550	750	1000	1500	3200	4400
6000	350	550	350	550	750	1000	1500	3200	4000
7000	350	550	350	550	750	1000	1500	3200	4000
8000	300	500	300	500	750	900	1400	3200	4000
9000	300	500	300	500	700	900	1300	3200	4000
10000	250	450	250	450	700	800	1300	3200	4000
12000				400	650	600	1300	3200	4000
14000				350	600		1200	2800	4000
16000					550		1000	2800	4000
18000					450			2800	3600
20000								2800	3600
22000								2400	3600
24000								2400	3200
26000								2400	3200
28000								2000	3200
30000								1800	2800
32000								1600	2400
34000									2400
36000									2000
38000									
40000									

Light Guided Missile			
2	5	10	20
600	1000	1400	2200

Medium Guided Missile				
10	20	50	100	200
1100	1800	3200	4200	5200

Heavy Guided Missile				
200	500	1000	2000	5000
5200	8000	10000	11000	15000

Aircraft Delivered Weapons									
5	10	20	50	100	200	500	1000	2000	5000
700	1400	2000	3000	4000	5000	7600	9500	10800	15600

NOTE: Blank spaces indicate either the target is out of range or a probable minimum coverage of .3 cannot be obtained.

SHORT RANGE CANNON 0.5 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD	LIGHT	LIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER	DAMAGE TO FIXED BRIDGES	DAMAGE TO BUILDINGS	A/C IN FLIGHT	DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1700	1300	1700	1300	1400	1000	300	1000	1800	300	300	700	500
3000	1700	1300	1700	1300	1500	1100	300	1100	1800	300	300	700	500
4000	1800	1300	1800	1300	1500	1100	300	1100	1900	300	300	700	500
5000	1800	1300	1800	1300	1500	1100	300	1200	2000	300	300	800	500
6000	1800	1300	1800	1300	1500	1100	300	1200	2000	400	400	800	500
7000	1800	1300	1800	1300	1500	1100	300	1300	2100	400	400	800	500
8000	1800	1400	1800	1400	1500	1100	300	1300	2100	400	400	800	500
9000	1800	1400	1800	1400	1600	1200	300	1300	2200	400	400	800	500
10000	1900	1400	1900	1400	1600	1200	400	1400	2200	400	400	800	500

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

SHORT RANGE CANNON
0.5 KT

MODERATE DAMAGE TO WHEELED VEHICLES
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	100	150	200	250	300	350	400	450					
2000	.9/.9	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	206	25	14	38	5
3000	.9/.9	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	206	38	21	49	8
4000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	203	51	28	56	10
5000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.3/.4	.3/.3	.2/.2	197	64	35	66	13
6000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.5	.3/.3	.2/.3	.2/.2	190	77	42	73	15
7000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	178	90	49	84	18
8000	.9/.9	.7/.9	.6/.7	.4/.6	.3/.4	.2/.3	.2/.2	.1/.2	169	102	56	91	20
9000	.7/.9	.6/.8	.5/.7	.4/.5	.3/.4	.2/.3	.2/.2	.1/.2	154	116	63	101	23
10000	.6/.8	.5/.7	.4/.6	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	140	128	70	108	25

SHORT RANGE CANNON 1.0 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1900	1400	1900	1400	1600	1200	300	1300	2300	400	400	1000	700
3000	1900	1400	1900	1400	1600	1200	300	1400	2300	400	400	1000	700
4000	1900	1500	1900	1500	1600	1200	400	1400	2400	400	400	1000	700
5000	1900	1500	1900	1500	1700	1200	400	1500	2500	400	400	1000	700
6000	2000	1500	2000	1500	1700	1200	400	1500	2500	500	500	1100	700
7000	2000	1500	2000	1500	1700	1300	400	1500	2600	500	500	1100	700
8000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
9000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
10000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1100	700

NOTE - Radistion measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

SHORT RANGE CANNON
1.0 KT

MODERATE DAMAGE TO WHEELED VEHICLES
LOW AIRBURST

COVERAGE TABLE
(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	300	350	400	450	500	550	600	650					
2000	.8/.8	.7/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	287	25	14	49	5
3000	.8/.8	.7/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	287	38	21	55	8
4000	.8/.8	.7/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	287	51	28	62	10
5000	.8/.8	.7/.7	.5/.5	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	283	54	35	73	13
6000	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	282	77	42	80	15
7000	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	272	90	49	90	18
8000	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	264	102	56	97	20
9000	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	251	116	63	108	23
10000	.6/.7	.5/.6	.4/.5	.3/.4	.2/.3	.2/.2	.2/.2	.1/.2	242	128	70	115	25

MEDIUM RANGE CANNON 0.5 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1700	1300	1700	1300	1400	1000	300	1000	1800	300	300	700	500
3000	1700	1300	1700	1300	1500	1100	300	1100	1800	300	300	700	500
4000	1800	1300	1800	1300	1500	1100	300	1100	1900	300	300	700	500
5000	1800	1300	1800	1300	1500	1100	300	1200	2000	300	300	800	500
6000	1800	1300	1800	1300	1500	1100	300	1200	2000	400	400	800	500
7000	1800	1300	1800	1300	1500	1100	300	1300	2100	400	400	800	500
8000	1800	1400	1800	1400	1500	1100	300	1300	2100	400	400	800	500
9000	1800	1400	1800	1400	1600	1200	300	1300	2200	400	400	800	500
10000	1900	1400	1900	1400	1600	1200	400	1400	2200	400	400	800	500
11000	1900	1400	1900	1400	1600	1200	400	1400	2300	400	400	800	600
12000	1900	1400	1900	1400	1600	1200	400	1400	2300	400	400	800	600
13000	1900	1400	1900	1400	1600	1200	400	1500	2400	400	400	800	600
14000	1900	1500	1900	1500	1600	1200	400	1500	2400	400	400	800	600
15000	1900	1500	1900	1500	1700	1300	400	1500	2400	400	400	800	600
16000	2000	1500	2000	1500	1700	1300	400	1500	2500	400	400	800	600
17000	2000	1500	2000	1500	1700	1300	400	1600	2500	400	400	900	600
18000	2000	1500	2000	1500	1700	1300	400	1600	2500	400	400	900	600
19000	2000	1500	2000	1500	1700	1300	300	1600	2500	400	400	900	600
20000	2000	1600	2000	1600	1700	1300	300	1600	2600	400	400	900	600

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
0.5 KT

MODERATE DAMAGE TO WHEELED VEHICLES
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	100	150	200	250	300	350	400	450		CD 90	CEP	HOB	PEH
2000	.9/.9	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	206	25	14	39	5
3000	.9/.9	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	206	38	21	49	8
4000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	203	51	28	56	10
5000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.3/.4	.3/.3	.2/.2	197	64	35	66	13
6000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.5	.3/.3	.2/.3	.2/.2	190	77	42	73	15
7000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	178	90	49	84	18
8000	.9/.9	.7/.9	.6/.7	.4/.6	.3/.4	.2/.3	.2/.2	.1/.2	169	102	56	91	20
9000	.7/.9	.6/.8	.5/.7	.4/.5	.3/.4	.2/.3	.2/.2	.1/.2	154	116	63	101	23
10000	.6/.8	.5/.7	.4/.6	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	140	128	70	108	25
11000	.2/.8	.3/.7	.2/.5	.2/.4	.2/.3	.1/.2	.1/.2	.1/.1	116	141	77	119	28
12000	.0/.7	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	0	154	84	126	30
13000	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	167	91	136	33
14000	.0/.5	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	180	98	143	35
15000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	0	193	106	154	38
16000	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	205	112	161	40
17000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	219	120	171	43
18000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	231	127	178	45
19000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	244	134	189	48
20000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	257	141	196	50

MEDIUM RANGE CANNON 1.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1900	1400	1900	1400	1600	1200	300	1300	2300	400	400	1000	700
3000	1900	1400	1900	1400	1600	1200	300	1400	2300	400	400	1000	700
4000	1900	1500	1900	1500	1600	1200	400	1400	2400	400	400	1000	700
5000	1900	1500	1900	1500	1700	1200	400	1500	2500	400	400	1000	700
6000	2000	1500	2000	1500	1700	1200	400	1500	2500	500	500	1100	700
7000	2000	1500	2000	1500	1700	1300	400	1500	2600	500	500	1100	700
8000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
9000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
10000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1100	700
11000	2000	1600	2000	1600	1800	1300	400	1700	2800	500	500	1100	700
12000	2100	1600	2100	1600	1800	1300	500	1700	2900	500	500	1100	700
13000	2100	1600	2100	1600	1800	1400	500	1800	2900	500	500	1100	800
14000	2100	1600	2100	1600	1800	1400	500	1800	3000	500	500	1100	800
15000	2100	1600	2100	1600	1800	1400	500	1800	3000	500	500	1100	800
16000	2100	1700	2100	1700	1800	1400	500	1900	3000	600	500	1100	800
17000	2100	1700	2100	1700	1900	1400	500	1900	3100	600	600	1100	800
18000	2200	1700	2200	1700	1900	1400	500	1900	3100	600	600	1200	800
19000	2200	1700	2200	1700	1900	1500	500	2000	3200	600	600	1200	800
20000	2200	1700	2200	1700	1900	1500	500	2000	3200	600	600	1200	800

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
1.0 KT

MODERATE DAMAGE TO WHEELED VEHICLES
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	200	250	300	350	400	450	500	550		CD 90	CEP	HOB	PEH
2000	.9/.9	.9/.9	.8/.8	.7/.7	.5/.5	.4/.4	.3/.4	.3/.3	287	25	14	49	5
3000	.9/.9	.9/.9	.8/.8	.7/.7	.5/.5	.4/.4	.3/.4	.3/.3	287	38	21	55	8
4000	.9/.9	.9/.9	.8/.8	.7/.7	.5/.5	.4/.4	.3/.4	.3/.3	287	51	28	62	10
5000	.9/.9	.9/.9	.8/.8	.7/.7	.5/.5	.4/.4	.3/.4	.3/.3	283	64	35	73	13
6000	.9/.9	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	282	77	42	80	15
7000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	272	90	49	90	18
8000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	264	102	56	97	20
9000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	251	116	63	108	23
10000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.2/.3	.2/.2	242	128	70	115	25
11000	.7/.9	.6/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	227	141	77	125	28
12000	.6/.8	.5/.7	.4/.6	.4/.5	.3/.4	.2/.3	.2/.3	.2/.2	216	154	84	132	30
13000	.5/.8	.5/.7	.4/.6	.3/.5	.2/.4	.2/.3	.2/.2	.1/.2	194	167	91	143	33
14000	.4/.7	.4/.6	.3/.6	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	177	180	98	150	35
15000	.2/.7	.2/.6	.2/.5	.2/.4	.2/.3	.1/.3	.1/.2	.1/.2	152	193	106	160	38
16000	.0/.6	.0/.5	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.2	0	205	112	167	40
17000	.0/.6	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	0	219	120	178	43
18000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	0	231	127	185	45
19000	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	244	134	195	48
20000	.0/.4	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	257	141	202	50

MEDIUM RANGE CANNON 2.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1300	900
3000	2100	1600	2100	1600	1800	1300	400	1700	2900	500	500	1400	900
4000	2100	1600	2100	1600	1800	1300	400	1700	2900	500	500	1400	900
5000	2100	1600	2100	1600	1800	1300	500	1800	3000	600	500	1400	900
6000	2100	1600	2100	1600	1800	1400	500	1800	3100	600	600	1400	900
7000	2100	1700	2100	1600	1800	1400	500	1900	3200	600	600	1400	900
8000	2200	1700	2200	1700	1800	1400	500	1900	3200	600	600	1400	900
9000	2200	1700	2200	1700	1900	1400	500	1900	3300	600	600	1400	900
10000	2200	1700	2200	1700	1900	1400	500	2000	3300	600	600	1400	900
11000	2200	1700	2200	1700	1900	1400	500	2000	3400	600	600	1400	1000
12000	2200	1700	2200	1700	1900	1500	500	2000	3500	600	600	1400	1000
13000	2200	1800	2200	1700	1900	1500	600	2100	3500	600	600	1500	1000
14000	2300	1800	2300	1800	1900	1500	600	2100	3500	700	700	1500	1000
15000	2300	1800	2300	1800	2000	1500	600	2200	3600	700	700	1500	1000
16000	2300	1800	2300	1800	2000	1500	600	2200	3600	700	700	1500	1000
17000	2300	1800	2300	1800	2000	1500	600	2200	3700	700	700	1500	1000
18000	2300	1800	2300	1800	2000	1600	600	2300	3700	700	700	1500	1000
19000	2300	1900	2300	1800	2000	1600	600	2300	3800	700	700	1500	1000
20000	2400	1900	2400	1900	2000	1600	600	2300	3800	700	700	1500	1000

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
2.0 KT

MODERATE DAMAGE TO WHEELED VEHICLES
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	400	450	500	550	600	650	700	750					
2000	.8/.8	.7/.7	.6/.6	.5/.5	.4/.4	.4/.4	.3/.3	.3/.3	380	25	14	61	5
3000	.8/.8	.7/.7	.6/.6	.5/.5	.4/.4	.4/.4	.3/.3	.3/.3	379	38	21	63	8
4000	.8/.8	.7/.7	.6/.6	.5/.5	.4/.4	.4/.4	.3/.3	.3/.3	379	51	28	70	10
5000	.8/.8	.7/.7	.6/.6	.5/.5	.4/.4	.4/.4	.3/.3	.3/.3	379	64	35	80	13
6000	.8/.8	.7/.7	.6/.6	.5/.5	.4/.4	.4/.4	.3/.3	.3/.3	377	77	42	87	15
7000	.8/.8	.7/.7	.6/.6	.5/.5	.4/.4	.3/.4	.3/.3	.3/.3	373	90	49	98	18
8000	.7/.8	.7/.7	.6/.6	.5/.5	.4/.4	.3/.4	.3/.3	.3/.3	368	102	56	105	20
9000	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.3/.3	.2/.3	357	116	63	115	23
10000	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.3/.3	.2/.3	349	128	70	122	25
11000	.6/.7	.5/.6	.5/.5	.4/.4	.3/.4	.3/.3	.2/.3	.2/.2	336	141	77	133	28
12000	.6/.7	.5/.6	.4/.5	.4/.4	.3/.4	.3/.3	.2/.3	.2/.2	327	154	84	140	30
13000	.6/.7	.5/.6	.4/.5	.3/.4	.3/.4	.2/.3	.2/.3	.2/.2	312	167	91	150	33
14000	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	302	180	98	157	35
15000	.4/.6	.4/.5	.3/.5	.3/.4	.2/.3	.2/.3	.2/.2	.1/.2	284	193	106	168	38
16000	.4/.6	.4/.5	.3/.4	.3/.4	.2/.3	.2/.3	.2/.2	.1/.2	269	205	112	175	40
17000	.3/.6	.3/.5	.2/.4	.2/.4	.2/.3	.1/.2	.1/.2	.1/.2	244	219	120	185	43
18000	.3/.5	.3/.5	.2/.4	.2/.3	.1/.3	.1/.2	.1/.2	.1/.2	226	231	127	192	45
19000	.2/.5	.2/.4	.2/.4	.1/.3	.1/.3	.1/.2	.1/.2	.1/.2	198	244	134	203	48
20000	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	0	257	141	210	50

FREE FLIGHT ROCKET 5.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	3100	2500	2400	1900	2100	1600	700	2500	4300	800	800	2100	1300
6000	3100	2500	2400	1900	2100	1600	700	2600	4400	900	800	2100	1400
7000	3200	2600	2500	1900	2100	1700	700	2700	4500	900	900	2100	1400
8000	3200	2600	2500	2000	2200	1700	700	2800	4700	900	900	2100	1400
9000	3200	2600	2500	2000	2200	1700	800	2800	4700	900	900	2100	1400
10000	3300	2700	2600	2000	2200	1800	800	2900	4800	900	900	2200	1400
11000	3300	2700	2600	2100	2300	1800	800	3000	4900	1000	900	2200	1400
12000	3300	2700	2600	2100	2300	1800	800	3000	5000	1000	1000	2200	1500
13000	3400	2800	2700	2100	2300	1900	800	3100	5100	1000	1000	2200	1500
14000	3400	2800	2700	2200	2400	1900	900	3200	5200	1000	1000	2200	1500
15000	3400	2800	2700	2200	2400	1900	900	3200	5300	1000	1000	2200	1500
16000	3500	2900	2800	2200	2400	2000	900	3300	5300	1100	1000	2200	1500
17000	3500	2900	2800	2300	2500	2000	900	3400	5400	1100	1000	2300	1500
18000	3500	2900	2800	2300	2500	2000	900	3400	5500	1100	1000	2300	1500
19000	3600	3000	2900	2300	2500	2000	900	3500	5500	1100	1000	2300	1600
20000	3600	3000	2900	2400	2600	2100	900	3500	5600	1100	1100	2300	1600
21000	3600	3000	2900	2400	2600	2100	900	3500	5700	1100	1000	2300	1600
22000	3700	3000	3000	2400	2600	2100	900	3600	5700	1100	1000	2300	1600
23000	3700	3100	3000	2400	2600	2200	900	3600	5700	1100	1000	2400	1600
24000	3700	3100	3000	2500	2700	2200	900	3700	5800	1100	1000	2400	1600
25000	3800	3100	3000	2500	2700	2200	900	3700	5800	1100	1000	2400	1600
26000	3800	3200	3100	2500	2700	2200	800	3700	5800	1100	1000	2400	1600
27000	3800	3200	3100	2600	2800	2300	800	3700	5900	1100	1000	2400	1600
28000	3900	3200	3100	2600	2800	2300	800	3800	5900	1100	900	2400	1700
29000	3900	3300	3200	2600	2800	2300	800	3800	5900	1000	900	2400	1700
30000	3900	3300	3200	2700	2900	2400	700	3800	6000	1000	900	2500	1700
31000	4000	3300	3200	2700	2900	2400	700	3800	6000	1000	1000	2500	1700
32000	4000	3400	3300	2700	2900	2400	700	3800	6000	1000	900	2500	1700
33000	4000	3400	3300	2700	2900	2400	700	3900	6000	1000	900	2500	1700
34000	4100	3400	3300	2800	3000	2500	700	3900	6000	900	800	2500	1700
35000	4100	3400	3300	2800	3000	2500	700	3800	6000	900	800	2500	1700
36000	4100	3500	3400	2800	3000	2500	700	3900	6100	900	800	2500	1700
37000	4100	3500	3400	2900	3100	2500	400	3900	6100	800	800	2500	1700
38000	4200	3500	3400	2900	3100	2600	400	3900	6100	800	500	2600	1700
39000	4200	3600	3500	2900	3100	2600	300	3900	6100	800	500	2600	1700
40000	4200	3600	3500	2900	3100	2600	300	3900	6100	800	500	2600	1700

NOTE - Radiation measuring instruments should be used when approaching 700 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET 5.0 KT

MODERATE DAMAGE TO WHEELED VEHICLES LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	300	400	500	600	700	800	900	1000		CD 90	CEP	HOB	PEH
5000	.9/.9	.9/.9	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	538	128	70	135	25
6000	.9/.9	.9/.9	.8/.9	.7/.7	.6/.6	.4/.5	.3/.4	.3/.3	521	154	84	152	30
7000	.9/.9	.9/.9	.8/.8	.7/.7	.5/.6	.4/.5	.3/.4	.3/.3	499	180	98	170	35
8000	.9/.9	.8/.9	.7/.8	.6/.7	.5/.6	.4/.4	.3/.3	.2/.3	475	205	112	187	40
9000	.9/.9	.8/.9	.7/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.3	450	231	127	205	45
10000	.8/.9	.7/.8	.6/.7	.4/.6	.4/.5	.3/.4	.2/.3	.2/.2	420	257	141	222	50
11000	.7/.9	.6/.8	.5/.7	.4/.6	.3/.5	.2/.4	.2/.3	.2/.2	383	283	155	240	55
12000	.6/.8	.5/.7	.4/.6	.3/.5	.2/.4	.2/.3	.1/.3	.1/.2	337	308	169	257	60
13000	.3/.8	.3/.7	.3/.6	.2/.5	.2/.4	.1/.3	.1/.2	.1/.2	289	334	183	275	65
14000	.0/.7	.0/.6	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	0	360	197	292	70
15000	.0/.6	.0/.5	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.2	0	385	211	310	75
16000	.0/.6	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	0	411	225	327	80
17000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	0	437	239	345	85
18000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	463	254	362	90
19000	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	0	488	268	380	95
20000	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	514	282	397	100
21000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	540	296	415	105
22000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	566	310	432	110
23000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	591	324	450	115
24000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	617	338	467	120
25000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	643	352	485	125
26000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	668	367	502	130
27000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	694	381	520	135
28000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	720	395	537	140
29000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	746	409	555	145
30000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	771	423	572	150
31000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	0	797	437	590	155
32000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	0	823	451	607	160
33000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	0	849	465	625	165
34000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	0	874	479	642	170
35000	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	900	494	660	175
36000	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	926	508	677	180
37000	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	951	522	695	185
38000	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	977	536	712	190
39000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	1003	550	730	195
40000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	1029	564	747	200

FREE FLIGHT ROCKET 10.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	4700	3700	2600	2300	2300	1800	800	3300	5600	1100	1100	3000	1900
6000	4700	3700	2700	2300	2300	1800	900	3400	5700	1200	1100	3000	2000
7000	4700	3800	2700	2400	2300	1800	900	3400	5800	1200	1100	3000	2000
8000	4800	3800	2700	2400	2400	1900	900	3500	6000	1200	1100	3100	2000
9000	4800	3800	2800	2400	2400	1900	900	3600	6100	1200	1200	3100	2000
10000	4800	3900	2800	2500	2400	1900	1000	3700	6200	1300	1200	3100	2000
11000	4900	3900	2800	2500	2500	2000	1000	3700	6300	1300	1200	3100	2000
12000	4900	3900	2900	2500	2500	2000	1000	3800	6400	1300	1200	3100	2100
13000	4900	4000	2900	2600	2500	2000	1000	3900	6500	1300	1300	3200	2100
14000	5000	4000	2900	2600	2600	2100	1100	3900	6600	1400	1300	3200	2100
15000	5000	4000	3000	2600	2600	2100	1100	4000	6700	1400	1300	3200	2100
16000	5000	4100	3000	2700	2600	2100	1100	4100	6800	1400	1300	3200	2100
17000	5100	4100	3000	2700	2700	2200	1100	4200	6900	1400	1300	3200	2100
18000	5100	4100	3100	2700	2700	2200	1100	4200	6900	1400	1400	3200	2200
19000	5100	4200	3100	2800	2700	2200	1200	4300	7000	1500	1400	3300	2200
20000	5200	4200	3100	2800	2800	2300	1200	4400	7100	1500	1400	3300	2200
21000	5200	4200	3200	2800	2800	2300	1200	4400	7200	1500	1400	3300	2200
22000	5200	4300	3200	2900	2800	2300	1200	4500	7300	1500	1400	3300	2200
23000	5300	4300	3200	2900	2900	2300	1200	4500	7300	1500	1500	3300	2200
24000	5300	4300	3300	2900	2900	2400	1200	4600	7400	1500	1500	3300	2200
25000	5300	4400	3300	3000	2900	2400	1200	4600	7500	1600	1500	3400	2300
26000	5400	4400	3300	3000	2900	2400	1200	4700	7500	1600	1500	3400	2300
27000	5400	4400	3300	3000	3000	2500	1200	4700	7600	1600	1500	3400	2300
28000	5400	4500	3400	3000	3000	2500	1200	4800	7600	1600	1500	3400	2300
29000	5500	4500	3400	3100	3000	2500	1200	4800	7700	1600	1500	3400	2300
30000	5500	4500	3400	3100	3100	2500	1300	4800	7700	1600	1500	3400	2300
31000	5500	4600	3500	3100	3100	2600	1200	4900	7800	1600	1500	3400	2300
32000	5600	4600	3500	3200	3100	2600	1200	4900	7800	1600	1500	3500	2300
33000	5600	4600	3500	3200	3200	2600	1200	5000	7800	1600	1500	3500	2400
34000	5600	4600	3600	3200	3200	2700	1200	5000	7900	1600	1500	3500	2400
35000	5700	4700	3600	3300	3200	2700	1300	5000	7900	1600	1500	3500	2400
36000	5700	4700	3600	3300	3200	2700	1100	5000	7900	1600	1500	3500	2400
37000	5700	4700	3700	3300	3300	2700	1100	5100	8000	1600	1500	3500	2400
38000	5800	4800	3700	3300	3300	2800	1200	5100	8000	1600	1400	3500	2400
39000	5800	4800	3700	3400	3300	2800	1200	5100	8000	1600	1400	3600	2400
40000	5800	4800	3700	3400	3400	2800	1200	5100	8000	1600	1400	3600	2400

NOTE - Radiation measuring instruments should be used when approaching 700 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET 10.0 KT

MODERATE DAMAGE TO WHEELED VEHICLES LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	600	700	800	900	1000	1100	1200	1300		CD 90	CEP	HOB	PEH
5000	.9/.9	.9/.9	.8/.9	.7/.7	.6/.6	.5/.5	.5/.5	.4/.4	790	128	70	152	25
6000	.9/.9	.9/.9	.8/.9	.7/.7	.6/.6	.5/.5	.4/.5	.4/.4	780	154	84	169	30
7000	.9/.9	.9/.9	.8/.8	.7/.7	.6/.6	.5/.5	.4/.5	.4/.4	774	180	98	187	35
8000	.9/.9	.9/.9	.8/.8	.7/.7	.6/.6	.5/.5	.4/.4	.4/.4	754	205	112	204	40
9000	.9/.9	.8/.9	.7/.8	.6/.7	.6/.6	.5/.5	.4/.4	.3/.4	732	231	127	222	45
10000	.9/.9	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	708	257	141	239	50
11000	.8/.9	.7/.8	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	682	283	155	257	55
12000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.5	.3/.4	.3/.3	655	308	169	274	60
13000	.7/.9	.6/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.4	.2/.3	625	334	183	292	65
14000	.7/.8	.6/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.4	.2/.3	591	360	197	309	70
15000	.6/.8	.5/.7	.4/.6	.4/.5	.3/.5	.3/.4	.2/.3	.2/.3	549	385	211	327	75
16000	.5/.7	.4/.7	.4/.6	.3/.5	.3/.4	.2/.4	.2/.3	.2/.3	501	411	225	344	80
17000	.4/.7	.3/.6	.3/.6	.3/.5	.2/.4	.2/.3	.1/.3	.1/.2	450	437	239	362	85
18000	.2/.7	.2/.6	.2/.5	.2/.5	.1/.4	.1/.3	.1/.3	.1/.2	349	463	254	379	90
19000	.0/.6	.0/.5	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	0	488	268	397	95
20000	.0/.6	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	0	514	282	414	100
21000	.0/.5	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	0	540	296	432	105
22000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	0	566	310	449	110
23000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	0	591	324	467	115
24000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	0	617	338	484	120
25000	.0/.4	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	0	643	352	502	125
26000	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	0	668	367	519	130
27000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	0	694	381	537	135
28000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	0	720	395	554	140
29000	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	746	409	572	145
30000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	771	423	589	150
31000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	797	437	607	155
32000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	823	451	624	160
33000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	849	465	642	165
34000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	874	479	659	170
35000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	900	494	677	175
36000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	926	508	694	180
37000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	951	522	712	185
38000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	977	536	729	190
39000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	1003	550	747	195
40000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	1029	564	764	200

FREE FLIGHT ROCKET 50.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	10400	7800	5400	4500	3200	2800	1500	5500	9500	2300	2000	6300	4000
6000	10500	7900	5400	4600	3300	2800	1500	5600	9600	2300	2100	6300	4000
7000	10500	8000	5500	4700	3300	2900	1500	5700	9800	2300	2100	6400	4100
8000	10600	8000	5500	4700	3400	2900	1600	5800	9900	2400	2100	6400	4100
9000	10600	8000	5600	4800	3400	2900	1600	5900	10100	2400	2100	6500	4100
10000	10600	8100	5600	4800	3500	3000	1600	6000	10200	2400	2200	6500	4100
11000	10700	8100	5700	4800	3500	3000	1700	6100	10300	2500	2200	6500	4200
12000	10700	8200	5700	4900	3500	3100	1700	6100	10500	2500	2200	6500	4200
13000	10800	8200	5700	4900	3600	3100	1700	6200	10600	2500	2200	6600	4200
14000	10800	8200	5800	4900	3600	3100	1700	6300	10700	2500	2300	6600	4200
15000	10800	8300	5800	5000	3600	3200	1800	6400	10900	2600	2300	6600	4300
16000	10900	8300	5800	5000	3700	3200	1800	6400	11000	2600	2300	6600	4300
17000	10900	8300	5900	5000	3700	3200	1800	6500	11100	2600	2300	6600	4300
18000	10900	8400	5900	5100	3700	3300	1800	6600	11200	2600	2400	6700	4300
19000	11000	8400	5900	5100	3800	3300	1900	6700	11300	2700	2400	6700	4300
20000	11000	8400	6000	5100	3800	3300	1900	6700	11400	2700	2400	6700	4300
21000	11000	8500	6000	5200	3800	3300	1900	6800	11500	2700	2400	6700	4400
22000	11100	8500	6000	5200	3900	3400	1900	6900	11600	2700	2500	6700	4400
23000	11100	8500	6100	5200	3900	3400	2000	6900	11700	2800	2500	6800	4400
24000	11100	8600	6100	5300	3900	3400	2000	7000	11800	2800	2500	6800	4400
25000	11200	8600	6100	5300	4000	3500	2000	7100	11900	2800	2500	6800	4400
26000	11200	8600	6200	5300	4000	3500	2000	7200	12000	2800	2500	6800	4400
27000	11200	8700	6200	5400	4000	3500	2100	7200	12100	2900	2600	6800	4500
28000	11300	8700	6200	5400	4100	3600	2100	7300	12200	2900	2600	6800	4500
29000	11300	8700	6300	5400	4100	3600	2100	7400	12200	2900	2600	6900	4500
30000	11400	8800	6300	5500	4100	3600	2100	7500	12300	2900	2600	6900	4500
31000	11400	8800	6300	5500	4200	3700	2100	7500	12400	3000	2600	6900	4500
32000	11400	8800	6400	5500	4200	3700	2200	7600	12500	3000	2700	6900	4500
33000	11500	8900	6400	5600	4200	3700	2200	7700	12600	3000	2700	6900	4600
34000	11500	8900	6400	5600	4300	3700	2200	7700	12700	3000	2700	6900	4600
35000	11500	8900	6500	5600	4300	3800	2200	7800	12800	3000	2700	7000	4600
36000	11600	9000	6500	5700	4300	3800	2200	7900	12800	3100	2700	7000	4600
37000	11600	9000	6500	5700	4400	3800	2300	7900	12900	3100	2700	7000	4600
38000	11600	9000	6600	5700	4400	3900	2300	8000	13000	3100	2700	7000	4600
39000	11700	9100	6600	5800	4400	3900	2300	8000	13100	3100	2700	7000	4600
40000	11700	9100	6600	5800	4500	3900	2300	8100	13100	3100	2800	7000	4700

NOTE - Radiation measuring instruments should be used when approaching 1,000 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET 50.0 KT

MODERATE DAMAGE TO WHEELED VEHICLES LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	1200	1600	2000	2400	2800	3200	3600	4000					
5000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	1612	128	70	207	25
6000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	1616	154	84	222	30
7000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	1620	180	98	239	35
8000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	1619	205	112	257	40
9000	.9/.9	.9/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	1618	231	127	274	45
10000	.9/.9	.8/.9	.7/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	1611	257	141	292	50
11000	.9/.9	.8/.9	.6/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	1596	283	155	309	55
12000	.9/.9	.8/.9	.6/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	1593	308	169	327	60
13000	.9/.9	.8/.9	.6/.6	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	1579	334	183	344	65
14000	.9/.9	.8/.8	.6/.6	.4/.5	.3/.3	.2/.3	.2/.2	.2/.2	1558	360	197	362	70
15000	.9/.9	.8/.8	.6/.6	.4/.5	.3/.3	.2/.3	.2/.2	.2/.2	1534	385	211	379	75
16000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.3	.2/.2	.1/.2	1508	411	225	397	80
17000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.3	.2/.2	.1/.2	1482	437	239	414	85
18000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.3	.2/.2	.1/.2	1454	463	254	432	90
19000	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.2	1426	488	268	449	95
20000	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.2	1397	514	282	467	100
21000	.8/.9	.7/.8	.5/.6	.3/.4	.2/.3	.2/.2	.2/.2	.1/.2	1367	540	296	484	105
22000	.8/.9	.6/.8	.5/.6	.3/.4	.2/.3	.2/.2	.1/.2	.1/.2	1336	566	310	502	110
23000	.8/.9	.6/.7	.4/.5	.3/.4	.2/.3	.2/.2	.1/.2	.1/.1	1303	591	324	519	115
24000	.8/.9	.6/.7	.4/.5	.3/.4	.2/.3	.2/.2	.1/.2	.1/.1	1267	617	338	537	120
25000	.7/.9	.5/.7	.4/.5	.3/.4	.2/.3	.2/.2	.1/.2	.1/.1	1229	643	352	554	125
26000	.7/.8	.5/.7	.4/.5	.3/.4	.2/.3	.1/.2	.1/.2	.1/.1	1186	668	367	572	130
27000	.6/.8	.5/.7	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	.1/.1	1138	694	381	589	135
28000	.6/.8	.4/.6	.3/.5	.2/.3	.2/.2	.1/.2	.1/.2	.1/.1	1086	720	395	607	140
29000	.6/.8	.4/.6	.3/.5	.2/.3	.1/.2	.1/.2	.1/.2	.1/.1	1030	746	409	624	145
30000	.5/.8	.4/.6	.2/.4	.2/.3	.1/.2	.1/.2	.1/.1	.1/.1	972	771	423	642	150
31000	.4/.7	.3/.6	.2/.4	.2/.3	.1/.2	.1/.2	.1/.1	.1/.1	918	797	437	659	155
32000	.4/.7	.3/.6	.2/.4	.1/.3	.1/.2	.1/.2	.1/.1	.0/.1	860	823	451	677	160
33000	.2/.7	.2/.5	.1/.4	.1/.3	.1/.2	.0/.2	.0/.1	.0/.1	632	849	465	694	165
34000	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	874	479	712	170
35000	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	900	494	729	175
36000	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	0	926	508	747	180
37000	.0/.6	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	951	522	764	185
38000	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	977	536	782	190
39000	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	1003	550	799	195
40000	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	1029	564	817	200

FREE FLIGHT ROCKET 100.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	14400	10600	7300	6100	4400	3700	1900	7200	12400	3000	2700	8600	5500
6000	14500	10700	7300	6100	4400	3700	2000	7300	12500	3100	2700	8700	5500
7000	14500	10700	7300	6200	4400	3800	2000	7400	12700	3100	2800	8700	5500
8000	14600	10800	7400	6200	4500	3800	2000	7500	12800	3100	2800	8700	5500
9000	14600	10800	7400	6300	4500	3800	2000	7600	13000	3200	2800	8700	5500
10000	14600	10800	7400	6300	4500	3900	2100	7700	13100	3200	2800	8800	5600
11000	14700	10900	7500	6300	4600	3900	2100	7700	13200	3200	2900	8800	5600
12000	14700	10900	7500	6400	4600	3900	2100	7800	13400	3200	2900	8800	5600
13000	14700	10900	7500	6400	4600	4000	2100	7900	13500	3300	2900	8800	5600
14000	14800	11000	7600	6400	4700	4000	2200	8000	13600	3300	2900	8800	5600
15000	14800	11000	7600	6500	4700	4000	2200	8000	13800	3300	3000	8800	5700
16000	14800	11000	7600	6500	4700	4100	2200	8100	13900	3300	3000	8900	5700
17000	14900	11100	7700	6500	4800	4100	2300	8200	14000	3400	3000	8900	5700
18000	14900	11100	7700	6600	4800	4100	2300	8200	14100	3400	3000	8900	5700
19000	14900	11100	7700	6600	4800	4200	2300	8300	14200	3400	3100	8900	5700
20000	15000	11200	7800	6600	4900	4200	2300	8400	14300	3500	3100	8900	5700
21000	15000	11200	7800	6700	4900	4200	2400	8500	14400	3500	3100	9000	5800
22000	15000	11200	7800	6700	4900	4300	2400	8500	14500	3500	3100	9000	5800
23000	15100	11300	7900	6700	5000	4300	2400	8600	14600	3500	3100	9000	5800
24000	15100	11300	7900	6800	5000	4300	2400	8700	14700	3600	3200	9000	5800
25000	15100	11300	7900	6800	5000	4300	2400	8800	14800	3600	3200	9000	5800
26000	15200	11400	8000	6800	5100	4400	2500	8800	14900	3600	3200	9000	5800
27000	15200	11400	8000	6900	5100	4400	2500	8900	14900	3600	3200	9100	5900
28000	15200	11400	8000	6900	5100	4400	2500	9000	15000	3700	3300	9100	5900
29000	15300	11500	8100	6900	5200	4500	2500	9000	15100	3700	3300	9100	5900
30000	15300	11500	8100	7000	5200	4500	2600	9100	15200	3700	3300	9100	5900
31000	15300	11500	8100	7000	5200	4500	2600	9200	15300	3700	3300	9100	5900
32000	15400	11600	8200	7000	5300	4600	2600	9300	15400	3700	3400	9100	5900
33000	15400	11600	8200	7100	5300	4600	2600	9300	15500	3800	3400	9200	6000
34000	15500	11600	8200	7100	5300	4600	2700	9400	15600	3800	3400	9200	6000
35000	15500	11700	8300	7100	5400	4700	2700	9500	15700	3800	3400	9200	6000
36000	15500	11700	8300	7100	5400	4700	2700	9500	15700	3800	3400	9200	6000
37000	15600	11700	8300	7200	5400	4700	2700	9600	15800	3900	3500	9200	6000
38000	15600	11800	8400	7200	5400	4700	2700	9700	15900	3900	3500	9200	6000
39000	15600	11800	8400	7200	5500	4800	2800	9700	16000	3900	3500	9300	6100
40000	15700	11800	8400	7300	5500	4800	2800	9800	16100	3900	3500	9300	6100

NOTE - Radiation measuring instruments should be used when approaching 1,000 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET
100.0 KT

MODERATE DAMAGE TO WHEELED VEHICLES
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	2000	2400	2800	3200	3600	4000	4400	4800					
5000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2157	128	70	358	25
6000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2154	154	84	376	30
7000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2149	180	98	393	35
8000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2139	205	112	411	40
9000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2127	231	127	428	45
10000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	2113	257	141	446	50
11000	.9/.9	.7/.8	.6/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	2097	283	155	463	55
12000	.9/.9	.7/.7	.6/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	2077	308	169	481	60
13000	.9/.9	.7/.7	.6/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	2054	334	183	498	65
14000	.9/.9	.7/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	2029	360	197	516	70
15000	.8/.9	.7/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	2003	385	211	533	75
16000	.8/.9	.7/.7	.5/.6	.4/.4	.3/.4	.3/.3	.2/.2	.2/.2	1976	411	225	551	80
17000	.8/.9	.7/.7	.5/.6	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	1947	437	239	568	85
18000	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	1918	463	254	586	90
19000	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	1889	488	268	603	95
20000	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	1859	514	282	621	100
21000	.7/.8	.6/.7	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	1828	540	296	638	105
22000	.7/.8	.6/.7	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	.1/.2	1797	566	310	656	110
23000	.7/.8	.6/.7	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	.1/.2	1764	591	324	673	115
24000	.7/.8	.5/.6	.4/.5	.3/.4	.2/.3	.2/.2	.2/.2	.1/.2	1730	617	338	691	120
25000	.6/.8	.5/.6	.4/.5	.3/.4	.2/.3	.2/.2	.2/.2	.1/.2	1693	643	352	708	125
26000	.6/.8	.5/.6	.4/.5	.3/.4	.2/.3	.2/.2	.1/.2	.1/.2	1654	668	367	726	130
27000	.6/.8	.5/.6	.3/.5	.3/.4	.2/.3	.2/.2	.1/.2	.1/.2	1613	694	381	743	135
28000	.6/.7	.4/.6	.3/.4	.3/.4	.2/.3	.2/.2	.1/.2	.1/.2	1568	720	395	761	140
29000	.5/.7	.4/.6	.3/.4	.2/.3	.2/.3	.2/.2	.1/.2	.1/.2	1519	746	409	778	145
30000	.5/.7	.4/.6	.3/.4	.2/.3	.2/.3	.1/.2	.1/.2	.1/.1	1465	771	423	796	150
31000	.5/.7	.4/.5	.3/.4	.2/.3	.2/.3	.1/.2	.1/.2	.1/.1	1409	797	437	813	155
32000	.4/.7	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	.1/.2	.1/.1	1350	823	451	831	160
33000	.4/.7	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	.1/.2	.1/.1	1288	849	465	848	165
34000	.4/.6	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	.1/.2	.1/.1	1228	874	479	866	170
35000	.4/.6	.3/.5	.2/.4	.1/.3	.1/.2	.1/.2	.1/.2	.1/.1	1184	900	494	883	175
36000	.3/.6	.2/.5	.2/.4	.1/.3	.1/.2	.1/.2	.1/.1	.1/.1	1084	926	508	901	180
37000	.0/.6	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	951	522	918	185
38000	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	977	536	936	190
39000	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	0	1003	550	953	195
40000	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	0	1029	564	971	200

LIGHT GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2 KT	2200	1700	2200	1700	1900	1500	500	2100	3500	600	600	1400	1000
5 KT	3100	2500	2400	1900	2100	1600	700	2600	4400	800	800	2100	1400
10 KT	4700	3700	2700	2300	2300	1800	900	3400	5700	1200	1100	3000	1900
20 KT	6900	5400	3700	3200	2500	2000	1100	4300	7300	1600	1500	4300	2800

NOTE - Radiation measuring instruments should be used when approaching 400-700 meters of ground zero because of induced contamination of the soil.

LIGHT GUIDED MISSILE

MODERATE DAMAGE TO WHEELED VEHICLES LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
2 KT	100	200	300	400	500	600	700	800	324	182	100	143	30
	.9/.9	.9/.9	.7/.8	.6/.7	.4/.5	.3/.4	.2/.3	.2/.2					
5 KT	500	600	700	800	900	1000	1100	1200	517	182	100	157	30
	.8/.9	.7/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2					
10 KT	400	600	800	1000	1200	1400	1600	1800	780	182	100	170	30
	.9/.9	.9/.9	.8/.8	.6/.6	.4/.5	.3/.3	.2/.3	.2/.2					
20 KT	1000	1200	1400	1600	1800	2000	2200	2400	1122	182	100	187	30
	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2					

Range span 10,000 - 50,000 meters

MEDIUM GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
10 KT	5500	4500	3500	3100	3100	2600	1300	3900	6400	1600	1500	3500	2400
20 KT	7700	6200	4500	4000	3300	2800	1600	4900	8100	2100	1900	4800	3200
50 KT	11300	8700	6200	5400	4100	3600	2000	6200	10400	2800	2500	6800	4500
100 KT	15100	11300	8000	6800	5100	4500	2300	7500	12600	3400	3100	9000	5800
200 KT	20700	15000	10500	8900	6600	5700	2900	9600	16300	4500	4000	12100	7800

NOTE - Radiation measuring instruments should be used when approaching 700-1,000 meters of ground zero because of induced contamination of the soil.

MEDIUM GUIDED MISSILE

MODERATE DAMAGE TO WHEELED VEHICLES LOW AIRBURST

COVERAGE TABLE (Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
YIELD	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
10 KT	300 .2/.7	500 .3/.7	700 .3/.6	900 .3/.5	1100 .3/.4	1300 .2/.3	1500 .2/.2	1700 .2/.2	707	911	500	240	50
20 KT	200 .8/.9	600 .6/.9	1000 .5/.7	1200 .5/.6	1400 .4/.5	1800 .3/.4	2400 .2/.2	3000 .1/.1	1090	911	500	257	50
50 KT	800 .9/.9	1200 .8/.9	1600 .7/.8	2000 .5/.6	2400 .4/.5	2800 .3/.4	3200 .3/.3	3600 .2/.2	1614	911	500	286	50
100 KT	1200 .9/.9	1800 .8/.9	2400 .7/.7	3000 .5/.5	3600 .4/.4	4200 .3/.3	4800 .2/.2	5400 .2/.2	2139	911	500	315	50
200 KT	800 .9/.9	1200 .9/.9	2000 .9/.9	2800 .8/.8	3600 .6/.6	4400 .4/.4	5200 .3/.3	6000 .2/.2	2830	911	500	502	50

Range span 50,000 - 150,000 meters

HEAVY GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
200 KT	21800	16100	11500	9900	7600	6700	3500	10700	17800	5100	4600	12700	8300
500 KT	32400	22800	16100	13700	10300	8900	4400	13800	23100	6800	5800	18300	11900
1000 KT	44200	30000	20900	17800	13200	11300	5200	16800	28200	8500	7000	24400	15700
2000 KT	48900	32800	22900	19400	14300	12300	5600	18200	30700	9200	7600	26800	17200
5000 KT	67000	43100	30200	25600	18700	15900	6800	22500	38100	11500	9500	35900	22900

NOTE - Radiation measuring instruments should be used when approaching 1,000-1,400 meters of ground zero because of induced contamination of the soil.

HEAVY GUIDED MISSILE

MODERATE DAMAGE TO WHEELED VEHICLES LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

YIELD	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	1600	2200	2800	3400	4000	4600	5200	5800		CD 90	CEP	HOB	PEH
200 KT	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	2628	1822	1000	677	100
500 KT	3000	4000	5000	6000	7000	8000	9000	10000	3982	1822	1000	795	100
1000 KT	.8/.9	.7/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	5349	1822	1000	910	100
2000 KT	4000	5000	6000	7000	8000	9000	10000	11000	5810	1822	1000	1056	100
5000 KT	.8/.8	.5/.6	.4/.4	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	7699	1822	1000	1308	100

Range span 50,000 - 300,000 meters

AIRCRAFT DELIVERED WEAPONS

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5 KT	3400	2800	2700	2200	2400	1900	900	3000	4900	1000	1000	2200	1500
10 KT	5000	4000	3000	2600	2600	2100	1100	3700	6200	1300	1300	3200	2100
20 KT	1200	5700	4100	3500	2800	2300	1200	4700	7900	1800	1600	4500	2900
50 KT	10800	8200	5800	4900	3600	3100	1700	6000	10200	2500	2200	6600	4200
100 KT	14700	10900	7500	6400	4600	4000	2100	7300	12500	3200	2900	8700	5600
200 KT	20300	14600	10000	8400	6100	5200	2600	9400	16100	4200	3700	11800	7500
500 KT	30800	21200	14500	12100	8800	7400	3500	12500	21300	5800	4900	17400	11000
1000 KT	42400	28300	19200	16100	11600	9700	4300	15400	26400	7500	6200	23400	14800
2000 KT	47500	31300	21400	17900	12900	10800	4800	17600	30200	8400	6800	26000	16400
5000 KT	65500	41600	28700	24100	17200	14400	6000	21900	37700	10700	8700	35100	22100

NOTE - Radiation measuring instruments should be used when approaching 400-1,400 meters of ground zero because of induced contamination of the soil.

AIRCRAFT DELIVERED WEAPONS

MODERATE DAMAGE TO WHEELED VEHICLES LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									PROB. MIN. RD	ACCURACY DATA			
YIELD	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
5 KT	200 .4/.8	300 .4/.8	400 .4/.7	500 .4/.6	600 .3/.5	700 .3/.4	800 .2/.4	900 .2/.3	400	455	250	227	50
10 KT	200 .9/.9	400 .8/.9	600 .7/.8	800 .6/.7	1000 .5/.6	1200 .4/.4	1400 .3/.3	1600 .2/.2	707	455	250	240	50
20 KT	400 .9/.9	800 .9/.9	1200 .7/.8	1600 .5/.5	2000 .3/.3	2400 .2/.2	2800 .2/.2	3200 .1/.1	1090	455	250	257	50
50 KT	1400 .9/.9	1800 .7/.8	2200 .6/.6	2600 .4/.4	3000 .3/.3	3400 .2/.2	3800 .2/.2	4200 .2/.2	1614	455	250	286	50
100 KT	2000 .9/.9	2400 .7/.8	2800 .6/.6	3200 .5/.5	3600 .4/.4	4000 .3/.3	4400 .2/.3	4800 .2/.2	2139	455	250	315	50
200 KT	2800 .8/.9	3200 .7/.8	3600 .6/.6	4000 .5/.5	4400 .4/.4	4800 .4/.4	5200 .3/.3	5600 .3/.3	2830	455	250	502	50
500 KT	2800 .9/.9	3600 .9/.9	4400 .8/.8	5200 .6/.6	6000 .5/.5	6800 .4/.4	7600 .3/.3	8400 .2/.3	4106	455	250	620	50
1000 KT	5000 .9/.9	6000 .8/.8	7000 .6/.6	8000 .5/.5	9000 .4/.4	10000 .3/.3	11000 .3/.3	12000 .2/.2	5419	455	250	735	50
2000 KT	3600 .9/.9	4800 .9/.9	6000 .8/.9	7200 .7/.7	8400 .5/.5	9600 .4/.4	10800 .3/.3	12000 .2/.3	5810	455	250	1056	100
5000 KT	9600 .6/.7	10800 .5/.5	12000 .4/.4	13200 .4/.4	14400 .3/.3	15600 .3/.3	16800 .2/.2	18000 .2/.2	7699	455	250	1308	100

CHAPTER 9

COVERAGE TABLES FOR

MODERATE DAMAGE TO TANKS
&
SEVERE DAMAGE TO ARTILLERY

	Page
Short Range Cannon 0.5 KT.....	169
1.0 KT.....	171
Medium Range Cannon 0.5 KT.....	173
1.0 KT.....	175
2.0 KT.....	177
Free Flight Rocket 5.0 KT.....	179
10.0 KT.....	181
50.0 KT.....	183
100.0 KT.....	185
Light Guided Missile 2, 5, 10, and 20 KT.....	187
Medium Guided Missile 10, 20, 50, 100, and 200 KT.....	189
Heavy Guided Missile 200, 500, 1,000, 2,000, and 5,000 KT.,.....	191
Aircraft Delivered Weapons 5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, and 5,000 KT.....	193

TABLES OF MAXIMUM TARGET RADIUS (.3 Probable Minimum Coverage)

(Distances in Meters)

LOW AIRBURST

MODERATE DAMAGE TO TANKS & SEVERE DAMAGE TO ARTILLERY

Range	Short Range Cannon		Medium Range Cannon			Free Flight Rocket			
	.5	1	.5	1	2	5	10	50	100
2000	200	300	200	300	400				
3000	200	300	200	300	400				
4000	175	300	175	300	400				
5000	150	250	150	250	400	450	800	1800	2200
6000	100	250	100	250	350	450	800	1800	2000
7000		200		200	350	350	700	1800	2000
8000		150		150	350		600	1600	2000
9000					300		500	1600	2000
10000					250		400	1600	2000
12000								1400	1800
14000								1400	1800
16000								1200	1400
18000								1000	1200
20000									800
22000									
24000									
26000									
28000									
30000									
32000									
34000									
36000									
38000									
40000									

Light Guided Missile			
2	5	10	20
	450	800	1200

Medium Guided Missile				
10	20	50	100	200
		1600	2000	2800

Heavy Guided Missile				
200	500	1000	2000	5000
	3500	5000	5000	7000

Aircraft Delivered Weapons									
5	10	20	50	100	200	500	1000	2000	5000
		1000	1600	2400	2600	4400	5200	5600	7200

NOTE: Blank spaces indicate either the target is out of range or a probable minimum coverage of .3 cannot be obtained.

SHORT RANGE CANNON 0.5 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1700	1300	1700	1300	1400	1000	300	1000	1800	300	300	700	500
3000	1700	1300	1700	1300	1500	1100	300	1100	1800	300	300	700	500
4000	1800	1300	1800	1300	1500	1100	300	1100	1900	300	300	700	500
5000	1800	1300	1800	1300	1500	1100	300	1200	2000	300	300	800	500
6000	1800	1300	1800	1300	1500	1100	300	1200	2000	400	400	800	500
7000	1800	1300	1800	1300	1500	1100	300	1300	2100	400	400	800	500
8000	1800	1400	1800	1400	1500	1100	300	1300	2100	400	400	800	500
9000	1800	1400	1800	1400	1600	1200	300	1300	2200	400	400	800	500
10000	1900	1400	1900	1400	1600	1200	400	1400	2200	400	400	800	500

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

SHORT RANGE CANNON
0.5 KT

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN.	CD 90	CEP	HOB	PEH
	50	100	150	200	250	300	350	400	RD				
2000	.9/.9	.8/.9	.5/.5	.3/.3	.2/.2	.1/.1	.1/.1	.1/.1	104	25	14	38	5
3000	.9/.9	.7/.8	.4/.5	.3/.3	.2/.2	.1/.1	.1/.1	.1/.1	98	38	21	49	8
4000	.9/.9	.6/.8	.4/.4	.2/.2	.1/.2	.1/.1	.1/.1	.1/.1	91	51	28	56	10
5000	.7/.9	.5/.7	.3/.4	.2/.2	.1/.1	.1/.1	.1/.1	.0/.1	80	64	35	66	13
6000	.4/.8	.3/.6	.2/.3	.1/.2	.1/.1	.0/.1	.0/.1	.0/.1	65	77	42	73	15
7000	.0/.6	.0/.4	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	.0/.0	0	90	49	84	18
8000	.0/.5	.0/.4	.0/.2	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	0	102	56	91	20
9000	.0/.4	.0/.3	.0/.2	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	0	116	63	101	23
10000	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	0	128	70	108	25

SHORT RANGE CANNON 1.0 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1500	1400	1900	1400	1600	1200	300	1300	2300	400	400	1000	700
3000	1900	1400	1900	1400	1600	1200	300	1400	2300	400	400	1000	700
4000	1900	1500	1900	1500	1600	1200	400	1400	2400	400	400	1000	700
5000	1900	1500	1900	1500	1700	1200	400	1500	2500	400	400	1000	700
6000	2000	1500	2000	1500	1700	1200	400	1500	2500	500	500	1100	700
7000	2000	1500	2000	1500	1700	1300	400	1500	2600	500	500	1100	700
8000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
9000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
10000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1100	700

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

SHORT RANGE CANNON
1.0 KT

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE
(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	100	150	200	250	300	350	400	500					
2000	.9/.9	.9/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	159	25	14	49	5
3000	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	155	38	21	55	8
4000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.2	.1/.1	150	51	28	62	10
5000	.9/.9	.7/.8	.5/.6	.3/.4	.2/.3	.2/.2	.1/.2	.1/.1	139	64	35	73	13
6000	.8/.9	.6/.7	.4/.5	.3/.3	.2/.2	.1/.2	.1/.1	.1/.1	131	77	42	80	15
7000	.6/.8	.5/.7	.3/.5	.2/.3	.2/.2	.1/.2	.1/.1	.1/.1	115	90	49	90	18
8000	.5/.8	.3/.6	.2/.4	.2/.3	.1/.2	.1/.1	.1/.1	.0/.1	97	102	56	97	20
9000	.1/.6	.1/.5	.1/.4	.1/.2	.0/.2	.0/.1	.0/.1	.0/.1	62	116	63	108	23
10000	.0/.6	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	128	70	115	25

MEDIUM RANGE CANNON 0.5 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1700	1300	1700	1300	1400	1000	300	1000	1800	300	300	700	500
3000	1700	1300	1700	1300	1500	1100	300	1100	1800	300	300	700	500
4000	1800	1300	1800	1300	1500	1100	300	1100	1900	300	300	700	500
5000	1800	1300	1800	1300	1500	1100	300	1200	2000	300	300	800	500
6000	1800	1300	1800	1300	1500	1100	300	1200	2000	400	400	800	500
7000	1800	1300	1800	1300	1500	1100	300	1300	2100	400	400	800	500
8000	1800	1400	1800	1400	1500	1100	300	1300	2100	400	400	800	500
9000	1800	1400	1800	1400	1600	1200	300	1300	2200	400	400	800	500
10000	1900	1400	1900	1400	1600	1200	400	1400	2200	400	400	800	500
11000	1900	1400	1900	1400	1600	1200	400	1400	2300	400	400	800	600
12000	1900	1400	1900	1400	1600	1200	400	1400	2300	400	400	800	600
13000	1900	1400	1900	1400	1600	1200	400	1500	2400	400	400	800	600
14000	1900	1500	1900	1500	1600	1200	400	1500	2400	400	400	800	600
15000	1900	1500	1900	1500	1700	1300	400	1500	2400	400	400	800	600
16000	2000	1500	2000	1500	1700	1300	400	1500	2500	400	400	800	600
17000	2000	1500	2000	1500	1700	1300	400	1600	2500	400	400	900	600
18000	2000	1500	2000	1500	1700	1300	400	1600	2500	400	400	900	600
19000	2000	1500	2000	1500	1700	1300	300	1600	2500	400	400	900	600
20000	2000	1600	2000	1600	1700	1300	300	1600	2600	400	400	900	600

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
0.5 KT

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS										ACCURACY DATA				
RANGE	RADIUS OF TARGET									PROB. MIN. RD	CD 90	CEP	HOB	PEH
	50	100	150	200	250	300	350	400						
2000	.9/.9	.8/.9	.5/.5	.3/.3	.2/.2	.1/.1	.1/.1	.1/.1	104	25	14	38	5	
3000	.9/.9	.7/.8	.4/.5	.3/.3	.2/.2	.1/.1	.1/.1	.1/.1	98	38	21	49	8	
4000	.9/.9	.6/.8	.4/.4	.2/.2	.1/.2	.1/.1	.1/.1	.1/.1	91	51	28	56	10	
5000	.7/.9	.5/.7	.3/.4	.2/.2	.1/.1	.1/.1	.1/.1	.0/.1	80	64	35	66	13	
6000	.4/.8	.3/.6	.2/.3	.1/.2	.1/.1	.0/.1	.0/.1	.0/.1	65	77	42	73	15	
7000	.0/.6	.0/.4	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	.0/.0	0	90	49	84	18	
8000	.0/.5	.0/.4	.0/.2	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	0	102	56	91	20	
9000	.0/.4	.0/.3	.0/.2	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	0	116	63	101	23	
10000	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	0	128	70	108	25	
11000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	0	141	77	119	28	
12000	.0/.2	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	0	154	84	126	30	
13000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	0	167	91	136	33	
14000	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	180	98	143	35	
15000	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	193	106	154	38	
16000	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	205	112	161	40	
17000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	219	120	171	43	
18000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	231	127	178	45	
19000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	244	134	189	48	
20000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	257	141	196	50	

MEDIUM RANGE CANNON 1.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	1900	1400	1900	1400	1600	1200	300	1300	2300	400	400	1000	700
3000	1900	1400	1900	1400	1600	1200	300	1400	2300	400	400	1000	700
4000	1900	1500	1900	1500	1600	1200	400	1400	2400	400	400	1000	700
5000	1900	1500	1900	1500	1700	1200	400	1500	2500	400	400	1000	700
6000	2000	1500	2000	1500	1700	1200	400	1500	2500	500	500	1100	700
7000	2000	1500	2000	1500	1700	1300	400	1500	2600	500	500	1100	700
8000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
9000	2000	1500	2000	1500	1700	1300	400	1600	2700	500	500	1100	700
10000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1100	700
11000	2000	1600	2000	1600	1800	1300	400	1700	2800	500	500	1100	700
12000	2100	1600	2100	1600	1800	1300	500	1700	2900	500	500	1100	700
13000	2100	1600	2100	1600	1800	1400	500	1800	2900	500	500	1100	800
14000	2100	1600	2100	1600	1800	1400	500	1800	3000	500	500	1100	800
15000	2100	1600	2100	1600	1800	1400	500	1800	3000	500	500	1100	800
16000	2100	1700	2100	1700	1800	1400	500	1900	3000	600	500	1100	800
17000	2100	1700	2100	1700	1900	1400	500	1900	3100	600	600	1100	800
18000	2200	1700	2200	1700	1900	1400	500	1900	3100	600	600	1200	800
19000	2200	1700	2200	1700	1900	1500	500	2000	3200	600	600	1200	800
20000	2200	1700	2200	1700	1900	1500	500	2000	3200	600	600	1200	800

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON

1.0 KT

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	100	150	200	250	300	350	400	450		CD 90	CEP	HOB	PEH
2000	.9/.9	.9/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	159	25	14	49	5
3000	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	155	38	21	55	8
4000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.2	.1/.1	150	51	28	62	10
5000	.9/.9	.7/.8	.5/.6	.3/.4	.2/.3	.2/.2	.1/.2	.1/.1	139	64	35	73	13
6000	.8/.9	.6/.7	.4/.5	.3/.3	.2/.2	.1/.2	.1/.1	.1/.1	131	77	42	80	15
7000	.6/.8	.5/.7	.3/.5	.2/.3	.2/.2	.1/.2	.1/.1	.1/.1	115	90	49	90	18
8000	.5/.8	.3/.6	.2/.4	.2/.3	.1/.2	.1/.1	.1/.1	.0/.1	97	102	56	97	20
9000	.1/.6	.1/.5	.1/.4	.1/.2	.0/.2	.0/.1	.0/.1	.0/.1	62	116	63	108	23
10000	.0/.6	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	128	70	115	25
11000	.0/.5	.0/.4	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	141	77	125	28
12000	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	154	84	132	30
13000	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	167	91	143	33
14000	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	0	180	98	150	35
15000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	0	193	106	160	38
16000	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	0	205	112	167	40
17000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	0	219	120	178	43
18000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	0	231	127	185	45
19000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	0	244	134	195	48
20000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	0	257	141	202	50

MEDIUM RANGE CANNON 2.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2000	2000	1600	2000	1600	1700	1300	400	1700	2800	500	500	1300	900
3000	2100	1600	2100	1600	1800	1300	400	1700	2900	500	500	1400	900
4000	2100	1600	2100	1600	1800	1300	400	1700	2900	500	500	1400	900
5000	2100	1600	2100	1600	1800	1300	500	1800	3000	600	500	1400	900
6000	2100	1600	2100	1600	1800	1400	500	1800	3100	600	600	1400	900
7000	2100	1700	2100	1600	1800	1400	500	1900	3200	600	600	1400	900
8000	2200	1700	2200	1700	1800	1400	500	1900	3200	600	600	1400	900
9000	2200	1700	2200	1700	1900	1400	500	1900	3300	600	600	1400	900
10000	2200	1700	2200	1700	1900	1400	500	2000	3300	600	600	1400	900
11000	2200	1700	2200	1700	1900	1400	500	2000	3400	600	600	1400	1000
12000	2200	1700	2200	1700	1900	1500	500	2000	3500	600	600	1400	1000
13000	2200	1800	2200	1700	1900	1500	600	2100	3500	600	600	1500	1000
14000	2300	1800	2300	1800	1900	1500	600	2100	3500	700	700	1500	1000
15000	2300	1800	2300	1800	2000	1500	600	2200	3600	700	700	1500	1000
16000	2300	1800	2300	1800	2000	1500	600	2200	3600	700	700	1500	1000
17000	2300	1800	2300	1800	2000	1500	600	2200	3700	700	700	1500	1000
18000	2300	1800	2300	1800	2000	1600	600	2300	3700	700	700	1500	1000
19000	2300	1900	2300	1800	2000	1600	600	2300	3800	700	700	1500	1000
20000	2400	1900	2400	1900	2000	1600	600	2300	3800	700	700	1500	1000

NOTE - Radiation measuring instruments should be used when approaching 400 meters of ground zero because of induced contamination of the soil.

MEDIUM RANGE CANNON
2.0 KT

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	150	200	250	300	350	400	450	500					
2000	.9/.9	.9/.9	.7/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	216	25	14	61	5
3000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	213	38	21	63	8
4000	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	209	51	28	70	10
5000	.9/.9	.8/.9	.6/.7	.5/.5	.3/.4	.3/.3	.2/.2	.2/.2	201	64	35	80	13
6000	.9/.9	.7/.8	.6/.7	.4/.5	.3/.4	.2/.3	.2/.2	.2/.2	193	77	42	87	15
7000	.8/.9	.7/.8	.5/.6	.4/.5	.3/.3	.2/.3	.2/.2	.1/.2	181	90	49	98	18
8000	.7/.9	.6/.7	.4/.6	.3/.4	.3/.3	.2/.2	.2/.2	.1/.2	171	102	56	105	20
9000	.6/.8	.4/.7	.4/.5	.3/.4	.2/.3	.2/.2	.1/.2	.1/.1	152	116	63	115	23
10000	.5/.7	.3/.6	.3/.5	.2/.4	.1/.3	.1/.2	.1/.2	.1/.1	132	128	70	122	25
11000	.2/.7	.2/.5	.2/.4	.1/.3	.1/.2	.1/.2	.1/.1	.0/.1	101	141	77	133	28
12000	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	154	84	140	30
13000	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	167	91	150	33
14000	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	180	98	157	35
15000	.0/.4	.0/.3	.0/.3	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	193	106	168	38
16000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	205	112	175	40
17000	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	219	120	185	43
18000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	231	127	192	45
19000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	0	244	134	203	48
20000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	0	257	141	210	50

FREE FLIGHT ROCKET 5.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	3100	2500	2400	1900	2100	1600	700	2500	4300	800	800	2100	1300
6000	3100	2500	2400	1900	2100	1600	700	2600	4400	900	800	2100	1400
7000	3200	2600	2500	1900	2100	1700	700	2700	4500	900	900	2100	1400
8000	3200	2600	2500	2000	2200	1700	700	2800	4700	900	900	2100	1400
9000	3200	2600	2500	2000	2200	1700	800	2800	4700	900	900	2100	1400
10000	3300	2700	2600	2000	2200	1800	800	2900	4800	900	900	2200	1400
11000	3300	2700	2600	2100	2300	1800	800	3000	4900	1000	900	2200	1400
12000	3300	2700	2600	2100	2300	1800	800	3000	5000	1000	1000	2200	1500
13000	3400	2800	2700	2100	2300	1900	800	3100	5100	1000	1000	2200	1500
14000	3400	2800	2700	2200	2400	1900	900	3200	5200	1000	1000	2200	1500
15000	3400	2800	2700	2200	2400	1900	900	3200	5300	1000	1000	2200	1500
16000	3500	2900	2800	2200	2400	2000	900	3300	5300	1100	1000	2200	1500
17000	3500	2900	2800	2300	2500	2000	900	3400	5400	1100	1000	2300	1500
18000	3500	2900	2800	2300	2500	2000	900	3400	5500	1100	1000	2300	1500
19000	3600	3000	2900	2300	2500	2000	900	3500	5500	1100	1000	2300	1600
20000	3600	3000	2900	2400	2600	2100	900	3500	5600	1100	1100	2300	1600
21000	3600	3000	2900	2400	2600	2100	900	3500	5700	1100	1000	2300	1600
22000	3700	3000	3000	2400	2600	2100	900	3600	5700	1100	1000	2300	1600
23000	3700	3100	3000	2400	2600	2200	900	3600	5700	1100	1000	2400	1600
24000	3700	3100	3000	2500	2700	2200	900	3700	5800	1100	1000	2400	1600
25000	3800	3100	3000	2500	2700	2200	900	3700	5800	1100	1000	2400	1600
26000	3800	3200	3100	2500	2700	2200	800	3700	5800	1100	1000	2400	1600
27000	3800	3200	3100	2600	2800	2300	800	3700	5900	1100	1000	2400	1600
28000	3900	3200	3100	2600	2800	2300	800	3800	5900	1100	900	2400	1700
29000	3900	3300	3200	2600	2800	2300	800	3800	5900	1000	900	2400	1700
30000	3900	3300	3200	2700	2900	2400	700	3800	6000	1000	900	2500	1700
31000	4000	3300	3200	2700	2900	2400	700	3800	6000	1000	1000	2500	1700
32000	4000	3400	3300	2700	2900	2400	700	3800	6000	1000	900	2500	1700
33000	4000	3400	3300	2700	2900	2400	700	3900	6000	1000	900	2500	1700
34000	4100	3400	3300	2800	3000	2500	700	3900	6000	900	800	2500	1700
35000	4100	3400	3300	2800	3000	2500	700	3800	6000	900	800	2500	1700
36000	4100	3500	3400	2800	3000	2500	700	3900	6100	900	800	2500	1700
37000	4100	3500	3400	2900	3100	2500	400	3900	6100	800	800	2500	1700
38000	4200	3500	3400	2900	3100	2600	400	3900	6100	800	500	2600	1700
39000	4200	3600	3500	2900	3100	2600	300	3900	6100	800	500	2600	1700
40000	4200	3600	3500	2900	3100	2600	300	3900	6100	800	500	2600	1700

NOTE - Radiation measuring instruments should be used when approaching 700 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET
5.0 KT

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	EFFECTIVENESS									PROB.	ACCURACY DATA			
	RADIUS OF TARGET									MIN. RD	CD 90	CEP	HOB	PEH
	100	150	200	250	300	350	400	450						
5000	.9/.9	.9/.9	.8/.9	.7/.9	.6/.8	.5/.6	.4/.5	.3/.4	258	128	70	135	25	
6000	.9/.9	.8/.9	.7/.9	.6/.8	.5/.7	.4/.6	.3/.5	.3/.4	230	154	84	152	30	
7000	.6/.9	.5/.8	.5/.8	.4/.7	.3/.6	.3/.5	.2/.4	.2/.3	182	180	98	170	35	
8000	.1/.8	.2/.7	.2/.7	.2/.6	.2/.5	.2/.4	.1/.3	.1/.3	146	205	112	187	40	
9000	.0/.6	.0/.6	.0/.5	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	0	231	127	205	45	
10000	.0/.5	.0/.5	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	0	257	141	222	50	
11000	.0/.4	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	0	283	155	240	55	
12000	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	0	308	169	257	60	
13000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	334	183	275	65	
14000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	360	197	292	70	
15000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	385	211	310	75	
16000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	411	225	327	80	
17000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	437	239	345	85	
18000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	463	254	362	90	
19000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	0	488	268	380	95	
20000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	0	514	282	397	100	
21000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	0	540	296	415	105	
22000	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	566	310	432	110	
23000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	591	324	450	115	
24000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	617	338	467	120	
25000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	643	352	485	125	
26000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	668	367	502	130	
27000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	694	381	520	135	
28000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	720	395	537	140	
29000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	746	409	555	145	
30000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	771	423	572	150	
31000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	797	437	590	155	
32000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	823	451	607	160	
33000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	849	465	625	165	
34000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	874	479	642	170	
35000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	900	494	660	175	
36000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	926	508	677	180	
37000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	951	522	695	185	
38000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	977	536	712	190	
39000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	1003	550	730	195	
40000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	1029	564	747	200	

FREE FLIGHT ROCKET 10.0 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
5000	4700	3700	2600	2300	2300	1800	800	3300	5600	1100	1100	3000	1900
6000	4700	3700	2700	2300	2300	1800	900	3400	5700	1200	1100	3000	2000
7000	4700	3800	2700	2400	2300	1800	900	3400	5800	1200	1100	3000	2000
8000	4800	3800	2700	2400	2400	1900	900	3500	6000	1200	1100	3100	2000
9000	4800	3800	2800	2400	2400	1900	900	3600	6100	1200	1200	3100	2000
10000	4800	3900	2800	2500	2400	1900	1000	3700	6200	1300	1200	3100	2000
11000	4900	3900	2800	2500	2500	2000	1000	3700	6300	1300	1200	3100	2000
12000	4900	3900	2900	2500	2500	2000	1000	3800	6400	1300	1200	3100	2100
13000	4900	4000	2900	2600	2500	2000	1000	3900	6500	1300	1300	3200	2100
14000	5000	4000	2900	2600	2600	2100	1100	3900	6600	1400	1300	3200	2100
15000	5000	4000	3000	2600	2600	2100	1100	4000	6700	1400	1300	3200	2100
16000	5000	4100	3000	2700	2600	2100	1100	4100	6800	1400	1300	3200	2100
17000	5100	4100	3000	2700	2700	2200	1100	4200	6900	1400	1300	3200	2100
18000	5100	4100	3100	2700	2700	2200	1100	4200	6900	1400	1400	3200	2200
19000	5100	4200	3100	2800	2700	2200	1200	4300	7000	1500	1400	3300	2200
20000	5200	4200	3100	2800	2800	2300	1200	4400	7100	1500	1400	3300	2200
21000	5200	4200	3200	2800	2800	2300	1200	4400	7200	1500	1400	3300	2200
22000	5200	4300	3200	2900	2800	2300	1200	4500	7300	1500	1400	3300	2200
23000	5300	4300	3200	2900	2900	2300	1200	4500	7300	1500	1500	3300	2200
24000	5300	4300	3300	2900	2900	2400	1200	4600	7400	1500	1500	3300	2200
25000	5300	4400	3300	3000	2900	2400	1200	4600	7500	1600	1500	3400	2300
26000	5400	4400	3300	3000	2900	2400	1200	4700	7500	1600	1500	3400	2300
27000	5400	4400	3300	3000	3000	2500	1200	4700	7600	1600	1500	3400	2300
28000	5400	4500	3400	3000	3000	2500	1200	4800	7600	1600	1500	3400	2300
29000	5500	4500	3400	3100	3000	2500	1200	4800	7700	1600	1500	3400	2300
30000	5500	4500	3400	3100	3100	2500	1300	4800	7700	1600	1500	3400	2300
31000	5500	4600	3500	3100	3100	2600	1200	4900	7800	1600	1500	3400	2300
32000	5600	4600	3500	3200	3100	2600	1200	4900	7800	1600	1500	3500	2300
33000	5600	4600	3500	3200	3200	2600	1200	5000	7800	1600	1500	3500	2400
34000	5600	4600	3600	3200	3200	2700	1200	5000	7900	1600	1500	3500	2400
35000	5700	4700	3600	3300	3200	2700	1300	5000	7900	1600	1500	3500	2400
36000	5700	4700	3600	3300	3200	2700	1100	5000	7900	1600	1500	3500	2400
37000	5700	4700	3700	3300	3300	2700	1100	5100	8000	1600	1500	3500	2400
38000	5800	4800	3700	3300	3300	2800	1200	5100	8000	1600	1400	3500	2400
39000	5800	4800	3700	3400	3300	2800	1200	5100	8000	1600	1400	3600	2400
40000	5800	4800	3700	3400	3400	2800	1200	5100	8000	1600	1400	3600	2400

NOTE - Radiation measuring instruments should be used when approaching 700 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET
10.0 KT
MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	200	300	400	500	600	700	800	900		CD 90	CEP	HOB	PEH
5000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	414	128	70	152	25
6000	.9/.9	.9/.9	.8/.8	.6/.7	.4/.5	.3/.4	.3/.3	.2/.2	392	154	84	169	30
7000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.5	.3/.4	.2/.3	.2/.2	367	180	98	187	35
8000	.9/.9	.7/.9	.6/.7	.4/.6	.3/.4	.2/.3	.2/.3	.1/.2	338	205	112	204	40
9000	.7/.9	.6/.8	.4/.7	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	285	231	127	222	45
10000	.3/.8	.3/.7	.3/.6	.2/.5	.2/.4	.1/.3	.1/.2	.1/.2	233	257	141	239	50
11000	.0/.7	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	0	283	155	257	55
12000	.0/.7	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	0	308	169	274	60
13000	.0/.6	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.1	.0/.1	0	334	183	292	65
14000	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	360	197	309	70
15000	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	385	211	327	75
16000	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	411	225	344	80
17000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	437	239	362	85
18000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	463	254	379	90
19000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	488	268	397	95
20000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	514	282	414	100
21000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	540	296	432	105
22000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	566	310	449	110
23000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	0	591	324	467	115
24000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	0	617	338	484	120
25000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	0	643	352	502	125
26000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	0	668	367	519	130
27000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	0	694	381	537	135
28000	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	720	395	554	140
29000	.0/.1	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	746	409	572	145
30000	.0/.1	.0/.1	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	771	423	589	150
31000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	797	437	607	155
32000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	823	451	624	160
33000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	849	465	642	165
34000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	874	479	659	170
35000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	900	494	677	175
36000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	926	508	694	180
37000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	951	522	712	185
38000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	977	536	729	190
39000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	1003	550	747	195
40000	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	.0/.0	0	1029	564	764	200

FREE FLIGHT ROCKET 50.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	10400	7800	5400	4500	3200	2800	1500	5500	9500	2300	2000	6300	4000
6000	10500	7900	5400	4600	3300	2800	1500	5600	9600	2300	2100	6300	4000
7000	10500	8000	5500	4700	3300	2900	1500	5700	9800	2300	2100	6400	4100
8000	10600	8000	5500	4700	3400	2900	1600	5800	9900	2400	2100	6400	4100
9000	10600	8000	5600	4800	3400	2900	1600	5900	10100	2400	2100	6500	4100
10000	10600	8100	5600	4800	3500	3000	1600	6000	10200	2400	2200	6500	4100
11000	10700	8100	5700	4800	3500	3000	1700	6100	10300	2500	2200	6500	4200
12000	10700	8200	5700	4900	3500	3100	1700	6100	10500	2500	2200	6500	4200
13000	10800	8200	5700	4900	3600	3100	1700	6200	10600	2500	2200	6600	4200
14000	10800	8200	5800	4900	3600	3100	1700	6300	10700	2500	2300	6600	4200
15000	10800	8300	5800	5000	3600	3200	1800	6400	10900	2600	2300	6600	4300
16000	10900	8300	5800	5000	3700	3200	1800	6400	11000	2600	2300	6600	4300
17000	10900	8300	5900	5000	3700	3200	1800	6500	11100	2600	2300	6600	4300
18000	10900	8400	5900	5100	3700	3300	1800	6600	11200	2600	2400	6700	4300
19000	11000	8400	5900	5100	3800	3300	1900	6700	11300	2700	2400	6700	4300
20000	11000	8400	6000	5100	3800	3300	1900	6700	11400	2700	2400	6700	4300
21000	11000	8500	6000	5200	3800	3300	1900	6800	11500	2700	2400	6700	4400
22000	11100	8500	6000	5200	3900	3400	1900	6900	11600	2700	2500	6700	4400
23000	11100	8500	6100	5200	3900	3400	2000	6900	11700	2800	2500	6800	4400
24000	11100	8600	6100	5300	3900	3400	2000	7000	11800	2800	2500	6800	4400
25000	11200	8600	6100	5300	4000	3500	2000	7100	11900	2800	2500	6800	4400
26000	11200	8600	6200	5300	4000	3500	2000	7200	12000	2800	2500	6800	4400
27000	11200	8700	6200	5400	4000	3500	2100	7200	12100	2900	2600	6800	4500
28000	11300	8700	6200	5400	4100	3600	2100	7300	12200	2900	2600	6800	4500
29000	11300	8700	6300	5400	4100	3600	2100	7400	12200	2900	2600	6900	4500
30000	11400	8800	6300	5500	4100	3600	2100	7500	12300	2900	2600	6900	4500
31000	11400	8800	6300	5500	4200	3700	2100	7500	12400	3000	2600	6900	4500
32000	11400	8800	6400	5500	4200	3700	2200	7600	12500	3000	2700	6900	4500
33000	11500	8900	6400	5600	4200	3700	2200	7700	12600	3000	2700	6900	4600
34000	11500	8900	6400	5600	4300	3700	2200	7700	12700	3000	2700	6900	4600
35000	11500	8900	6500	5600	4300	3800	2200	7800	12800	3000	2700	7000	4600
36000	11600	9000	6500	5700	4300	3800	2200	7900	12800	3100	2700	7000	4600
37000	11600	9000	6500	5700	4400	3800	2300	7900	12900	3100	2700	7000	4600
38000	11600	9000	6600	5700	4400	3900	2300	8000	13000	3100	2700	7000	4600
39000	11700	9100	6600	5800	4400	3900	2300	8000	13100	3100	2700	7000	4600
40000	11700	9100	6600	5800	4500	3900	2300	8100	13100	3100	2800	7000	4700

NOTE - Radiation measuring instruments should be used when approaching 1,000 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET

50.0 KT

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	400	600	800	1000	1200	1400	1600	1800					
5000	.9/.9	.9/.9	.9/.9	.8/.8	.6/.6	.4/.5	.3/.4	.3/.3	911	128	70	207	25
6000	.9/.9	.9/.9	.9/.9	.8/.8	.6/.6	.4/.5	.3/.4	.3/.3	899	154	84	222	30
7000	.9/.9	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.3/.3	892	180	98	239	35
8000	.9/.9	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.3	873	205	112	257	40
9000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.6	.4/.4	.3/.3	.2/.3	850	231	127	274	45
10000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.3	826	257	141	292	50
11000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.5	.3/.4	.3/.3	.2/.2	801	283	155	309	55
12000	.9/.9	.9/.9	.7/.8	.6/.7	.4/.5	.3/.4	.2/.3	.2/.2	774	308	169	327	60
13000	.9/.9	.9/.9	.7/.8	.5/.7	.4/.5	.3/.4	.2/.3	.2/.2	744	334	183	344	65
14000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.5	.3/.4	.2/.3	.2/.2	712	360	197	362	70
15000	.9/.9	.7/.9	.5/.8	.4/.6	.3/.5	.2/.3	.2/.3	.1/.2	671	385	211	379	75
16000	.8/.9	.7/.8	.5/.7	.4/.6	.3/.4	.2/.3	.2/.2	.1/.2	607	411	225	397	80
17000	.7/.9	.6/.8	.4/.7	.3/.5	.2/.4	.2/.3	.1/.2	.1/.2	552	437	239	414	85
18000	.6/.9	.5/.8	.3/.6	.3/.5	.2/.4	.1/.3	.1/.2	.1/.2	493	463	254	432	90
19000	.3/.8	.3/.7	.2/.6	.2/.5	.1/.4	.1/.3	.1/.2	.1/.2	412	488	268	449	95
20000	.0/.7	.0/.7	.0/.6	.0/.4	.0/.3	.0/.2	.0/.2	.0/.2	0	514	282	467	100
21000	.0/.7	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	0	540	296	484	105
22000	.0/.6	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	0	566	310	502	110
23000	.0/.6	.0/.5	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	0	591	324	519	115
24000	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	617	338	537	120
25000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	643	352	554	125
26000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	668	367	572	130
27000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	694	381	589	135
28000	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	720	395	607	140
29000	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	746	409	624	145
30000	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	771	423	642	150
31000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	797	437	659	155
32000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	823	451	677	160
33000	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	849	465	694	165
34000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	874	479	712	170
35000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	900	494	729	175
36000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	926	508	747	180
37000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	951	522	764	185
38000	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	977	536	782	190
39000	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	1003	550	799	195
40000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.0	0	1029	564	817	200

FREE FLIGHT ROCKET 100.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	14400	10600	7300	6100	4400	3700	1900	7200	12400	3000	2700	8600	5500
6000	14500	10700	7300	6100	4400	3700	2000	7300	12500	3100	2700	8700	5500
7000	14500	10700	7300	6200	4400	3800	2000	7400	12700	3100	2800	8700	5500
8000	14600	10800	7400	6200	4500	3800	2000	7500	12800	3100	2800	8700	5500
9000	14600	10800	7400	6300	4500	3800	2000	7600	13000	3200	2800	8700	5500
10000	14600	10800	7400	6300	4500	3900	2100	7700	13100	3200	2800	8800	5600
11000	14700	10900	7500	6300	4600	3900	2100	7700	13200	3200	2900	8800	5600
12000	14700	10900	7500	6400	4600	3900	2100	7800	13400	3200	2900	8800	5600
13000	14700	10900	7500	6400	4600	4000	2100	7900	13500	3300	2900	8800	5600
14000	14800	11000	7600	6400	4700	4000	2200	8000	13600	3300	2900	8800	5600
15000	14800	11000	7600	6500	4700	4000	2200	8000	13800	3300	3000	8800	5700
16000	14800	11000	7600	6500	4700	4100	2200	8100	13900	3300	3000	8900	5700
17000	14900	11100	7700	6500	4800	4100	2300	8200	14000	3400	3000	8900	5700
18000	14900	11100	7700	6600	4800	4100	2300	8200	14100	3400	3000	8900	5700
19000	14900	11100	7700	6600	4800	4200	2300	8300	14200	3400	3100	8900	5700
20000	15000	11200	7800	6600	4900	4200	2300	8400	14300	3500	3100	8900	5700
21000	15000	11200	7800	6700	4900	4200	2400	8500	14400	3500	3100	9000	5800
22000	15000	11200	7800	6700	4900	4300	2400	8500	14500	3500	3100	9000	5800
23000	15100	11300	7900	6700	5000	4300	2400	8600	14600	3500	3100	9000	5800
24000	15100	11300	7900	6800	5000	4300	2400	8700	14700	3600	3200	9000	5800
25000	15100	11300	7900	6800	5000	4300	2400	8800	14800	3600	3200	9000	5800
26000	15200	11400	8000	6800	5100	4400	2500	8800	14900	3600	3200	9000	5800
27000	15200	11400	8000	6900	5100	4400	2500	8900	14900	3600	3200	9100	5900
28000	15200	11400	8000	6900	5100	4400	2500	9000	15000	3700	3300	9100	5900
29000	15300	11500	8100	6900	5200	4500	2500	9000	15100	3700	3300	9100	5900
30000	15300	11500	8100	7000	5200	4500	2600	9100	15200	3700	3300	9100	5900
31000	15300	11500	8100	7000	5200	4500	2600	9200	15300	3700	3300	9100	5900
32000	15400	11600	8200	7000	5300	4600	2600	9300	15400	3700	3400	9100	5900
33000	15400	11600	8200	7100	5300	4600	2600	9300	15500	3800	3400	9200	6000
34000	15500	11600	8200	7100	5300	4600	2700	9400	15600	3800	3400	9200	6000
35000	15500	11700	8300	7100	5400	4700	2700	9500	15700	3800	3400	9200	6000
36000	15500	11700	8300	7100	5400	4700	2700	9500	15700	3800	3400	9200	6000
37000	15600	11700	8300	7200	5400	4700	2700	9600	15800	3900	3500	9200	6000
38000	15600	11800	8400	7200	5400	4700	2700	9700	15900	3900	3500	9200	6000
39000	15600	11800	8400	7200	5500	4800	2800	9700	16000	3900	3500	9300	6100
40000	15700	11800	8400	7300	5500	4800	2800	9800	16100	3900	3500	9300	6100

NOTE - Radiation measuring instruments should be used when approaching 1,000 meters of ground zero because of induced contamination of the soil.

FREE FLIGHT ROCKET
100.0 KT

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	600	800	1000	1200	1400	1600	1800	2000		CD 90	CEP	HOB	PEH
5000	.9/.9	.9/.9	.9/.9	.8/.9	.7/.7	.5/.6	.4/.5	.4/.4	1160	128	70	358	25
6000	.9/.9	.9/.9	.9/.9	.8/.8	.7/.7	.5/.6	.4/.5	.3/.4	1137	154	84	376	30
7000	.9/.9	.9/.9	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.4	1113	180	98	393	35
8000	.9/.9	.9/.9	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	1087	205	112	411	40
9000	.9/.9	.9/.9	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	1061	231	127	428	45
10000	.9/.9	.9/.9	.8/.9	.7/.8	.6/.6	.4/.5	.3/.4	.3/.3	1033	257	141	446	50
11000	.9/.9	.9/.9	.8/.9	.7/.8	.5/.6	.4/.5	.3/.4	.3/.3	1004	283	155	463	55
12000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.6	.4/.5	.3/.4	.2/.3	972	308	169	481	60
13000	.9/.9	.9/.9	.7/.8	.6/.7	.5/.6	.4/.5	.3/.4	.2/.3	937	334	183	498	65
14000	.9/.9	.8/.9	.7/.8	.6/.7	.4/.5	.3/.4	.3/.3	.2/.3	897	360	197	516	70
15000	.9/.9	.8/.9	.6/.8	.5/.7	.4/.5	.3/.4	.2/.3	.2/.3	834	385	211	533	75
16000	.8/.9	.7/.9	.5/.8	.4/.6	.3/.5	.2/.4	.2/.3	.2/.3	766	411	225	551	80
17000	.8/.9	.6/.8	.5/.7	.4/.6	.3/.5	.2/.4	.2/.3	.1/.2	714	437	239	568	85
18000	.6/.9	.5/.8	.4/.7	.3/.6	.2/.4	.2/.4	.1/.3	.1/.2	650	463	254	586	90
19000	.5/.8	.4/.7	.3/.6	.2/.5	.2/.4	.1/.3	.1/.3	.2/.2	564	488	268	603	95
20000	.3/.8	.3/.7	.2/.6	.1/.5	.1/.4	.1/.3	.1/.2	.0/.2	419	514	282	621	100
21000	.0/.7	.0/.7	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	0	540	296	638	105
22000	.0/.7	.0/.6	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	0	566	310	656	110
23000	.0/.6	.0/.6	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.2	0	591	324	673	115
24000	.0/.6	.0/.5	.0/.5	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	0	617	338	691	120
25000	.0/.6	.0/.5	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.1	0	643	352	708	125
26000	.0/.5	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	0	668	367	726	130
27000	.0/.5	.0/.4	.0/.4	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	0	694	381	743	135
28000	.0/.5	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	720	395	761	140
29000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	0	746	409	778	145
30000	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	0	771	423	796	150
31000	.0/.4	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	797	437	813	155
32000	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	823	451	831	160
33000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	0	849	465	848	165
34000	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	874	479	866	170
35000	.0/.3	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	900	494	883	175
36000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	926	508	901	180
37000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	0	951	522	918	185
38000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	977	536	936	190
39000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	1003	550	953	195
40000	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	0	1029	564	971	200

LIGHT GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2 KT	2200	1700	2200	1700	1900	1500	500	2100	3500	600	600	1400	1000
5 KT	3100	2500	2400	1900	2100	1600	700	2600	4400	800	800	2100	1400
10 KT	4700	3700	2700	2300	2300	1800	900	3400	5700	1200	1100	3000	1900
20 KT	6900	5400	3700	3200	2500	2000	1100	4300	7300	1600	1500	4300	2800

NOTE - Radiation measuring instruments should be used when approaching 400-700 meters of ground zero because of induced contamination of the soil.

LIGHT GUIDED MISSILE

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

YIELD	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
2 KT	50 .0/.7	100 .0/.6	150 .0/.5	200 .0/.4	250 .0/.4	300 .0/.3	350 .0/.2	400 .0/.2	0	182	100	143	30
5 KT	150 .7/.9	200 .6/.8	250 .5/.7	300 .4/.6	350 .4/.5	400 .3/.4	450 .3/.4	500 .2/.3	223	182	100	157	30
10 KT	200 .9/.9	300 .9/.9	400 .7/.8	500 .6/.7	600 .4/.5	700 .3/.4	800 .3/.3	900 .2/.2	392	182	100	170	30
20 KT	400 .9/.9	500 .9/.9	600 .8/.9	700 .7/.7	800 .6/.6	1000 .4/.4	1200 .3/.3	1300 .2/.2	606	182	100	187	30

Range span 10,000 - 50,000 meters

MEDIUM GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
10 KT	5500	4500	3500	3100	3100	2600	1300	3900	6400	1600	1500	3500	2400
20 KT	7700	6200	4500	4000	3300	2800	1600	4900	8100	2100	1900	4800	3200
50 KT	11300	8700	6200	5400	4100	3600	2000	6200	10400	2800	2500	6800	4500
100 KT	15100	11300	8000	6800	5100	4500	2300	7500	12600	3400	3100	9000	5800
200 KT	20700	15000	10500	8900	6600	5700	2900	9600	16300	4500	4000	12100	7800

NOTE - Radiation measuring instruments should be used when approaching 700-1,000 meters of ground zero because of induced contamination of the soil.

MEDIUM GUIDED MISSILE

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
10 KT	100	200	300	400	500	600	700	800	232	911	500	240	50
	.0/.3	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2					
20 KT	500	700	800	900	1000	1100	1200	1300	508	911	500	257	50
	.1/.5	.1/.4	.2/.4	.2/.3	.2/.3	.2/.3	.2/.2	.1/.2					
50 KT	400	600	800	1000	1200	1400	1600	1800	832	911	500	286	50
	.4/.8	.4/.7	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.2					
100 KT	600	800	1200	1600	2000	2400	2800	3200	1160	911	500	315	50
	.7/.9	.6/.8	.5/.7	.4/.5	.3/.4	.2/.3	.2/.2	.1/.1					
200 KT	600	800	1200	1600	2000	2400	2800	3200	1452	911	500	502	50
	.9/.9	.8/.9	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2					

Range span 50,000 - 150,000 meters

HEAVY GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
200 KT	21800	16100	11500	9900	7600	6700	3500	10700	17800	5100	4600	12700	8300
500 KT	32400	22800	16100	13700	10300	8900	4400	13800	23100	6800	5800	18300	11900
1000 KT	44200	30000	20900	17800	13200	11300	5200	16800	28200	8500	7000	24400	15700
2000 KT	48900	32800	22900	19400	14300	12300	5600	18200	30700	9200	7600	26800	17200
5000 KT	67000	43100	30200	25600	18700	15900	6800	22500	38100	11500	9500	35900	22900

NOTE - Radiation measuring instruments should be used when approaching 1,000-1,400 meters of ground zero because of induced contamination of the soil.

HEAVY GUIDED MISSILE

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
YIELD	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
200 KT	1000 .1/.6	1200 .2/.5	1400 .2/.5	1600 .2/.4	1800 .2/.4	2000 .2/.4	2200 .2/.3	2400 .2/.3	1060	1822	1000	677	100
500 KT	500 .7/.9	1000 .6/.8	1500 .5/.8	2000 .5/.7	2500 .4/.6	3000 .4/.5	3500 .3/.4	4000 .2/.3	1895	1822	1000	795	100
1000 KT	2000 .7/.9	2500 .6/.8	3000 .6/.7	3500 .5/.6	4000 .4/.5	4500 .4/.4	5000 .3/.3	5500 .2/.3	2676	1822	1000	910	100
2000 KT	2000 .8/.9	3000 .6/.7	4000 .5/.6	5000 .3/.4	6000 .2/.3	7000 .2/.2	8000 .1/.1	9000 .1/.1	2849	1822	1000	1056	100
5000 KT	4000 .7/.8	5000 .6/.6	6000 .4/.5	7000 .3/.3	8000 .2/.3	9000 .2/.2	10000 .2/.2	11000 .1/.1	3840	1822	1000	1308	100

Range span 50,000 - 300,000 meters

AIRCRAFT DELIVERED WEAPONS

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5 KT	3400	2800	2700	2200	2400	1900	900	3000	4900	1000	1000	2200	1500
10 KT	5000	4000	3000	2600	2600	2100	1100	3700	6200	1300	1300	3200	2100
20 KT	1200	5700	4100	3500	2800	2300	1200	4700	7900	1800	1600	4500	2900
50 KT	10800	8200	5800	4900	3600	3100	1700	6000	10200	2500	2200	6600	4200
100 KT	14700	10900	7500	6400	4600	4000	2100	7300	12500	3200	2900	8700	5600
200 KT	20300	14600	10000	8400	6100	5200	2600	9400	16100	4200	3700	11800	7500
500 KT	30800	21200	14500	12100	8800	7400	3500	12500	21300	5800	4900	17400	11000
1000 KT	42400	28300	19200	16100	11600	9700	4300	15400	26400	7500	6200	23400	14800
2000 KT	47500	31300	21400	17900	12900	10800	4800	17600	30200	8400	6800	26000	16400
5000 KT	65500	41600	28700	24100	17200	14400	6000	21900	37700	10700	8700	35100	22100

NOTE - Radiation measuring instruments should be used when approaching 400-1,400 meters of ground zero because of induced contamination of the soil.

AIRCRAFT DELIVERED WEAPONS

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
LOW AIRBURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
5 KT	100	150	200	250	300	350	400	450	0	455	250	227	50
	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1					
10 KT	100	150	200	250	300	350	400	450	232	455	250	240	50
	.0/.7	.0/.6	.0/.6	.0/.6	.0/.6	.0/.5	.1/.5	.1/.4					
20 KT	100	300	500	700	900	1100	1300	1500	508	455	250	257	50
	.8/.9	.6/.9	.5/.7	.4/.5	.3/.4	.2/.3	.2/.2	.1/.1					
50 KT	400	600	800	1000	1200	1400	1600	1800	832	455	250	286	50
	.9/.9	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2					
100 KT	600	1000	1400	1800	2200	2600	3000	3400	1160	455	250	315	50
	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					
200 KT	1200	1600	2000	2400	2800	3200	3600	4000	1452	455	250	502	50
	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.2					
500 KT	1600	2000	2400	2800	3200	3600	4000	4400	2191	455	250	620	50
	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3					
1000 KT	3200	3600	4000	4400	4800	5200	5600	6000	2953	455	250	735	50
	.8/.8	.7/.7	.6/.6	.5/.5	.4/.4	.3/.4	.3/.3	.3/.3					
2000 KT	2400	3200	4000	4800	5600	6400	7200	8000	2849	455	250	1056	100
	.9/.9	.8/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.2					
5000 KT	3600	4800	6000	7200	8400	9600	10800	12000	3840	455	250	1308	100
	.9/.9	.6/.7	.4/.5	.3/.3	.2/.3	.2/.2	.1/.2	.1/.1					

CHAPTER 10

ATOMIC DEMOLITION MUNITIONS

10-1. General.

a. This chapter contains necessary effects data for the normal tactical use of atomic demolition munitions (ADM) on the surface or in shallow underground emplacements. When time is available for deliberate planning of major demolitions with the larger yield munitions, the engineer element determines the desirability of special deep underground emplacements (e.g., in tunnels) and/or the effects that can be expected against target elements not included in this chapter.

b. Materiel damage is the primary objective for ADM's. For this reason, the categories of materiel targets have been increased substantially in structural qualities and standards for targets such as buildings, underground structures, bridges, and equipment preclude a precise prediction of effects radii. Although in this chapter, the ADM effects radii are taken to be valid within ± 25 percent, variations in structural qualities may increase this uncertainty to ± 50 percent.

10-2. Employment capabilities.

a. Yield. ADM's are available with yields of .01 KT, .5 KT, 10 KT, and 50 KT.

b. Fuzing. ADM's can be detonated on the surface, in underground or in underwater emplacements using a time fuze. The time can be varied in 10-minute increments from 10 minutes to 1 hour and in 30-minute increments to 12 hours.

c. Preinitiation. See chapter 3 for the necessary considerations when a multiple weapon attack is desired.

10-3. Employment capabilities.

a. Tactical system accuracy. There is assumed to be no delivery error for ADM's.

b. Response time. As a basis for general tactical planning, two hours should be considered the time for a reasonably well-trained crew, operating in daylight under favorable conditions, to prepare and emplace a munition on the surface or a previously prepared emplacement. Night operations, enemy interference, or severe weather conditions may extend this time. This time does not include travel time. For detailed tactical planning, the time required for emplacement should be obtained from the engineer unit concerned.

c. Special considerations. The target analyst needs no special information for target analysis. The fire mission to the unit includes the GZ and any special emplacement instructions.

d. Air Blast Reduction. To determine the radii for air blast damage when the ADM is buried, subtract the distance shown in the air blast reduction table from the air blast damage distance of interest.

10-4. Fallout. Fallout is an important consideration in the employment of any ADM. With the larger munitions, it may be a major consideration. While radioactive contamination of the crater area increases the effectiveness of ADM's no data are included for induced radiation since it will be greatly overshadowed by fallout.

AIR BLAST TABLE

DAMAGE RADII AGAINST FIELD FORTIFICATIONS

SURFACE BURST

TARGET DESCRIPTION	DEGREE OF DAMAGE	YIELD (KT)			
		.01	.5	10	50
COMMAND POST AND PERSONNEL SHELTER, MODULAR SECTIONS 6 FEET BY 8 FEET WITH TOP 3 FEET TO 5 FEET BELOW GROUND SURFACE, EARTH COVERED, AND COVERED TRENCH ENTRANCE.	MOD	35	85	260	470
	SEV	35	80	245	440
MACHINEGUN EMPLACEMENT, 7 FEET BY 7 FEET, FRAMEWORK EXTENDS 2 FEET ABOVE ORIGINAL GROUND SURFACE, HAS OPEN FIRING PORTS AND OPEN TRENCH ENTRANCE, 3-FOOT TO 5-FOOT MOUND OF EARTH COVERS FRAME- WORK AND EXTENDS DOWN TO THE GROUND SURFACE EXCEPT AT OPENINGS.					
FIRING PORT FACING TOWARDS GROUND ZERO.	MOD	55	125	380	690
	SEV	50	110	340	620
FIRING PORT FACING AWAY FROM GROUND ZERO.	MOD	45	100	300	550
	SEV	40	95	285	520
UNREVETTED TRENCHES AND FOXHOLES WITH OR WITHOUT LIGHT COVER.	MOD	90	200	610	1110
	SEV	70	155	475	860
WIRE ENTANGLEMENTS, DOUBLE APRON BARBED WIRE CONCERTINA					
	SEV	45	115	435	895
	SEV	50	130	505	1035

AIR BLAST TABLE

DAMAGE RADII AGAINST BUILDINGS & STRUCTURES

SURFACE BURST

TARGET DESCRIPTION	DEGREE OF DAMAGE	YIELD (KT)			
		.01	.5	10	50
MULTISTORY BLAST-RESISTANT REINFORCED-CONCRETE BUILDING WITH REINFORCED CONCRETE WALLS, NO WINDOWS.	MOD	70	150	485	875
	SEV	50	110	355	690
MULTISTORY REINFORCED-CONCRETE BUILDING WITH CONCRETE WALLS, SMALL WINDOW AREA, THREE TO EIGHT STORIES.	MOD	90	225	760	1395
	SEV	60	155	555	1095
MULTISTORY WALL-BEARING BUILDING, BRICK APARTMENT-HOUSE-TYPE, UP TO THREE STORIES.	MOD	175	415	1270	2195
	SEV	115	290	975	1755
MULTISTORY WALL-BEARING BUILDING, MONUMENTAL TYPE, UP TO FOUR STORIES.	MOD	120	285	890	1580
	SEV	80	200	665	1255
WOOD FRAME BUILDING, HOUSE-TYPE, ONE OR TWO STORIES.	MOD	210	500	1550	2850
	SEV	140	350	1190	2215
LIGHT STEEL FRAME INDUSTRIAL BUILDING, SINGLE-STORY UP TO 5-TON CRANE CAPACITY.	MOD	65	190	830	1710
	SEV	45	120	580	1280
HEAVY STEEL FRAME INDUSTRIAL BUILDING, SINGLE-STORY, WITH 25- TO 50-TON CRANE CAPACITY.	MOD	55	175	725	1395
	SEV	35	115	520	1075
HEAVY STEEL FRAME INDUSTRIAL BUILDING, SINGLE-STORY, WITH 60- TO 100-TON CRANE CAPACITY.	MOD	50	165	645	1215
	SEV	35	105	455	945
MULTISTORY STEEL FRAME OFFICE-TYPE BUILDING, 3- TO 10-STORY, EARTHQUAKE RESISTANT	MOD	50	120	430	865
	SEV	35	85	305	650
MULTISTORY STEEL FRAME OFFICE-TYPE BUILDING, 3- TO 10-STORY, NON-EARTHQUAKE RESISTANT CONSTRUCTION.	MOD	65	145	535	1095
	SEV	45	105	375	820

AIR BLAST TABLE

DAMAGE RADII AGAINST BUILDINGS & STRUCTURES

SURFACE BURST

TARGET DESCRIPTION	DEGREE OF DAMAGE	YIELD (KT)			
		.01	.5	10	50
MULTISTORY REINFORCED CONCRETE FRAME OFFICE-TYPE BUILDING, 3- TO 10-STORIES, EARTHQUAKE RESISTANT.	MOD	60	135	485	965
	SEV	45	100	345	730
MULTISTORY REINFORCED CONCRETE FRAME OFFICE-TYPE BUILDING. 3- TO 10-STORIES, NON- EARTHQUAKE RESISTANT.	MOD	65	150	595	1170
	SEV	45	105	425	890
HIGHWAY TRUSS BRIDGE, SPANS 46 TO 76 METERS.	MOD	60	150	515	975
	SEV	40	105	375	755
FLOATING BRIDGES, RANDOM ORIENTATION.	MOD	55	145	580	1220
	SEV	35	100	410	900
UNDERGROUND PROTECTIVE STRUCTURES.					
STEEL OR CONCRETE ARCH OR DOME.					
DESIGNED TO RESIST 100 PSI FROM MEGATON RANGE WEAPON.					
20-FOOT SPAN	MOD	35	80	275	485
	SEV	25	55	205	385
50-FOOT SPAN	MOD	15	55	240	455
	SEV	10	35	170	350
DESIGNED TO RESIST 300 PSI FROM MEGATON RANGE WEAPON.					
20-FOOT SPAN	MOD	15	45	170	305
	SEV	10	30	120	240
50-FOOT SPAN	MOD	10	25	125	265
	SEV	5	15	90	195
REINFORCED CONCRETE BOX WITH 20-FOOT SPAN,					
100 PSI RESISTANT	MOD	25	70	265	485
	SEV	15	45	200	375
300 PSI RESISTANT	MOD	15	40	160	435
	SEV	10	30	115	235

AIR BLAST TABLE

DAMAGE RADII AGAINST MILITARY FIELD EQUIPMENT

SURFACE BURST

TARGET DESCRIPTION	DEGREE OF DAMAGE	YIELD (KT)			
		.01	.5	10	50
TRACKED VEHICLES	MOD	25	85	350	720
	SEV	15	55	240	495
ARTILLERY	MOD	30	105	435	895
	SEV	25	85	350	720
WHEELED MILITARY VEHICLES	MOD	70	190	725	1490
	SEV	40	105	400	815
SUPPLY DUMPS	SEV	20	60	230	470
RADIOS AND ELEC FIRE CONTR EQUIP	SEV	50	130	505	1035
OPEN-GRID-RADAR-ANTENNAS	SEV	125	330	1270	2600
RAILROAD ROLLING STOCK					
END-ON ORIENTATION	MOD	70	160	485	885
	SEV	65	145	450	815
45 DEG ORIENTATION	MOD	60	165	635	1300
	SEV	40	110	425	870
SIDE-ON ORIENTATION	MOD	75	195	745	1520
	SEV	60	155	595	1225
RAILROAD LOCOMOTIVES					
END-ON ORIENTATION	MOD	50	115	350	630
	SEV	30	70	215	390
45 DEG ORIENTATION	MOD	50	130	490	1005
	SEV	25	65	245	500
SIDE-ON ORIENTATION	MOD	50	130	500	1020
	SEV	25	70	275	565
ENGINEER EQUIPMENT					
TRUCK-MOUNTED	MOD	70	190	720	1475
	SEV	45	115	445	910
EARTH-MOVING	MOD	35	100	375	770
	SEV	30	85	330	675
PARKED COMBAT AIRCRAFT (RANDOM ORIENTATION)					
JET FIGHTER AIRCRAFT	MOD	140	320	985	1790
	SEV	110	245	750	1360
JET BOMBER AIRCRAFT	MOD	210	475	1445	2625
	SEV	160	360	1105	2005
PROPELLER FIGHTER AIRCRAFT	MOD	160	360	1105	2005
	SEV	140	320	985	1790
HELICOPTER AIRCRAFT	MOD	315	710	2165	3940
	SEV	190	430	1315	2385

RADII OF MINE DETONATION AND AIR BLAST RADII REDUCTION TABLES

RADIUS OF DETONATION OF VARIOUS US MINES-METERS

MINE TYPE	YIELD (KT)			
	.01	.5	10	50
M-6 A/T	95	210	645	1170
M-7 A/T	55	125	380	690
M-15 A/T	95	210	645	1170
M-14 A/P	140	320	975	1770

AIR BLAST RADII REDUCTION DISTANCES-METERS

DOB (METERS)	YIELD (KT)			
	.01	.5	10	50
1	10	10	10	10
2	25	20	15	15
3		35	25	25
4		50	35	30
5		75	45	40
6			55	50
7			70	60
8			80	70
9			95	80
10			115	95
12			150	115
14			190	140

PIER AND ABUTMENT DEMOLITION TABLES

YIELD DETERMINATION FOR ADM EMPLACEMENT ON
FACE OF REINFORCED CONCRETE PIER. TOP OF REINFORCED PIER
OR ABUTMENT, OR TRAVELED WAY OVER REINFORCED CONCRETE PIER

MAXIMUM WIDTH (METERS) OF PIER (OR TRAVELED WAY).	YIELD (KT) REQUIRED TO BREACH WIDTHS INDICATED			
	.01	.5	10	50
	15	35	95	160

YIELD DETERMINATION FOR ADM EMPLACEMENT
ON FACE OF REINFORCED CONCRETE ABUTMENT

YIELD (KT)							
.01		.5		10		50	
T	W	T	W	T	W	T	W
3.0	15	7.0	35	19.0	95	32.0	160

YIELD DETERMINATION FOR ADM EMPLACEMENT BEHIND REINFORCED
CONCRETE ABUTMENT AT A DEPTH EQUAL TO OR GREATER THAN ONE
HALF THE ABUTMENT HEIGHT

ABUTMENT THICKNESS (METERS)	MAXIMUM ABUTMENT WIDTH IN METERS THAT CAN BE EFFECTIVELY DEMOLISHED			
	YIELD (KT)			
	.01	.5	10	50
0.75	25	45	100	160
2.25	30	55	120	190
4.60	35	60	135	210
7.60	40	70	150	230
10.70	40	75	165	250
13.70	45	75	170	265

OVERPRESSURE TABLES

RADI OF VARIOUS OVERPRESSURE LEVELS

DOB (METERS)	YIELD (KT)			
	.01 PSI			
	1	3	6	10
0	415	195	130	95
1	415	190	120	85
2	405	175	100	65
3	375	140	80	55
4	315	115	70	50
5	205	95	60	45
6	165	85	55	40
7	145	75	50	35
8	130	70	50	35

DOB (METERS)	YIELD (KT)			
	.5 PSI			
	1	3	6	10
0	945	445	295	215
1	945	440	290	210
2	945	435	280	200
3	935	425	270	180
4	925	410	255	160
5	905	380	215	140
6	875	345	195	130
7	835	315	180	125
8	785	285	165	120
10	615	240	145	105
12	430	210	135	95
14	365	190	125	90
18	295	160	110	75

DOB (METERS)	YIELD (KT)			
	10 PSI			
	1	3	6	10
0	2890	1365	905	655
1	2890	1360	900	650
2	2885	1355	895	650
3	2885	1350	885	650
4	2885	1345	875	645
5	2885	1335	870	635
6	2885	1330	860	615
7	2880	1325	850	600
8	2870	1315	835	580
9	2865	1310	825	560
10	2855	1295	815	540
12	2835	1265	785	490
14	2805	1210	700	445
18	2690	1065	605	405
22	2530	940	545	380
30	1990	745	455	330

DOB (METERS)	YIELD (KT)			
	50 PSI			
	1	3	6	10
0	5250	2480	1645	1195
1	5250	2480	1640	1190
2	5250	2475	1635	1185
3	5245	2470	1625	1185
4	5245	2460	1620	1185
5	5245	2455	1610	1180
6	5245	2450	1605	1180
7	5245	2445	1595	1175
8	5240	2435	1585	1165
9	5240	2430	1580	1155
10	5240	2425	1570	1135
12	5240	2410	1550	1100
14	5225	2395	1525	1065
18	5190	2355	1480	985
22	5155	2290	1415	890
30	4970	2040	1145	755

ADM YIELD DETERMINATION FOR
EMPLACEMENT DIRECTLY OVER TUNNEL

BURST TO TUNNEL DISTANCE (METERS)	MINIMUM YIELD (KT) ADM REQUIRED TO EXTEND ZONE II DAMAGE (SEVERE) FOR 30 METERS WITHIN A TUNNEL THROUGH A HARD-ROCK MEDIUM.								
	DOB=0M	DOB=1M	DOB=2M	DOB=3M	DOB=4M	DOB=5M	DOB=6M	DOB=8M	DOB=10M
10	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
12	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
14	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
16	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
18	10.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
20	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
25	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
30	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
35	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
40	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
45	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
50	50.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

NOTE - For an accessible tunnel, a 0.5 KT ADM placed on tunnel floor will close 30 meters of tunnel.

TREE BLOWDOWN OBSTACLE

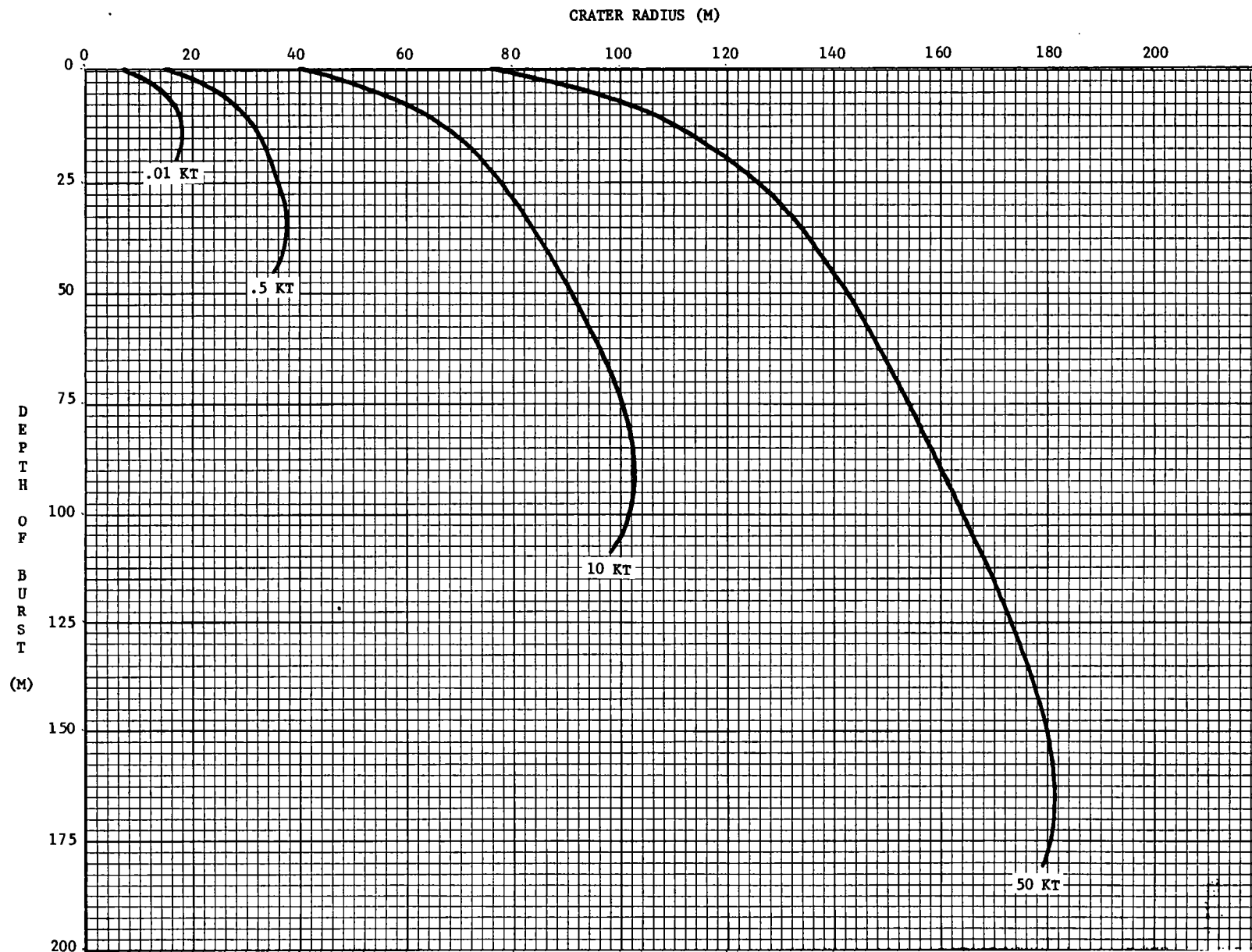
YIELD (KT)	DECIDUOUS	CONIFEROUS
0.01	70	65
0.50	195	195
10.00	790	700
50.00	1555	1430

SAFETY DISTANCES
LIGHT AIRCRAFT IN FLIGHT-METERS

YIELD (KT)	AIRCRAFT SAFETY DISTANCES
0.01	634
0.50	1439
10.00	4399
50.00	7994

CRATER GRAPH

CRATER RADIUS (DRY SOIL OR SOFT ROCK)



NOTE: To obtain crater radii in hard rock or concrete, multiply crater radius (dry soil or soft rock) by 0.8.

CRATER GRAPH

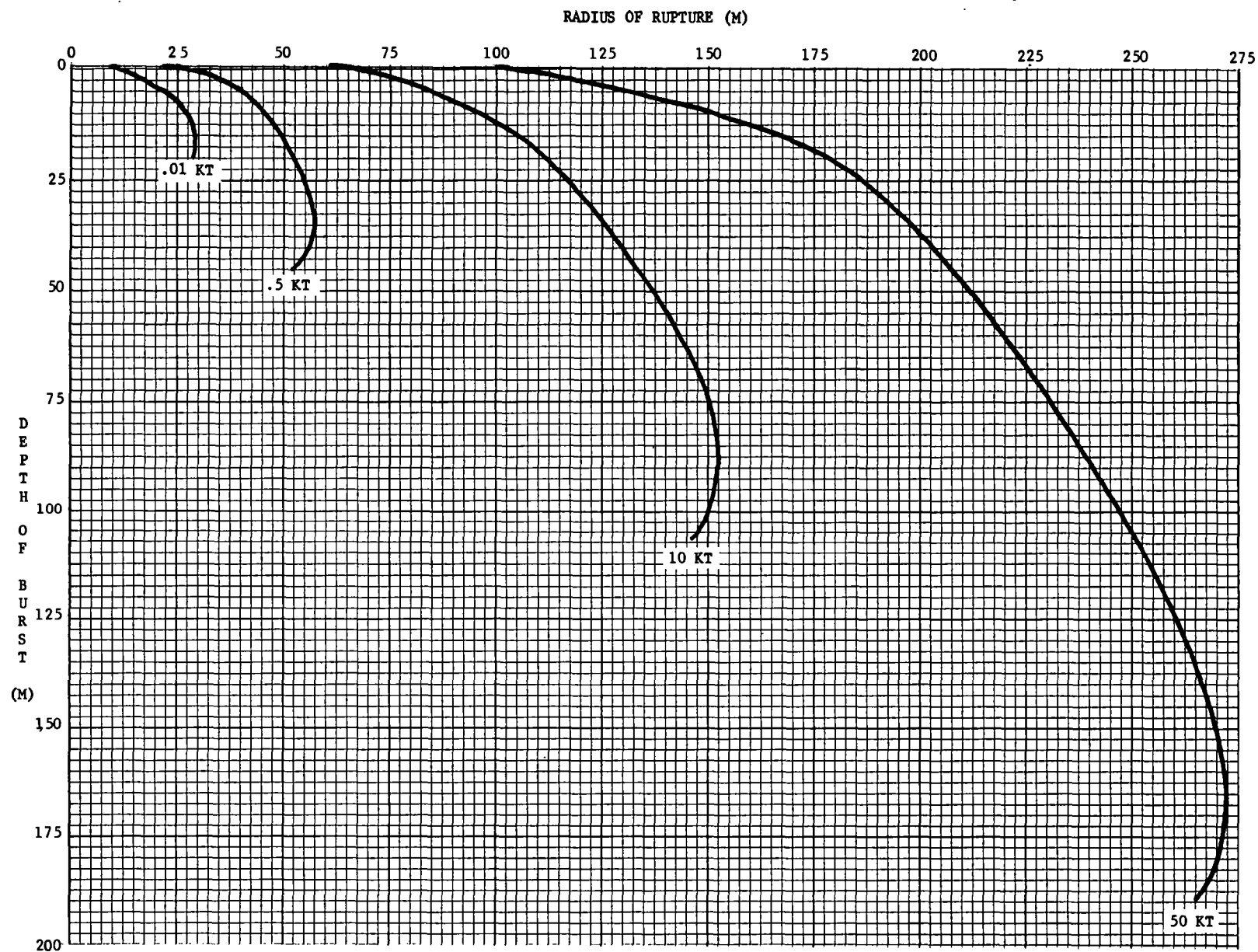
CRATER DEPTH (DRY SOIL OR SOFT ROCK)



NOTE: To obtain depth of crater in hard rock or concrete,
multiply depth of crater (dry soil or soft rock) by 0.8.

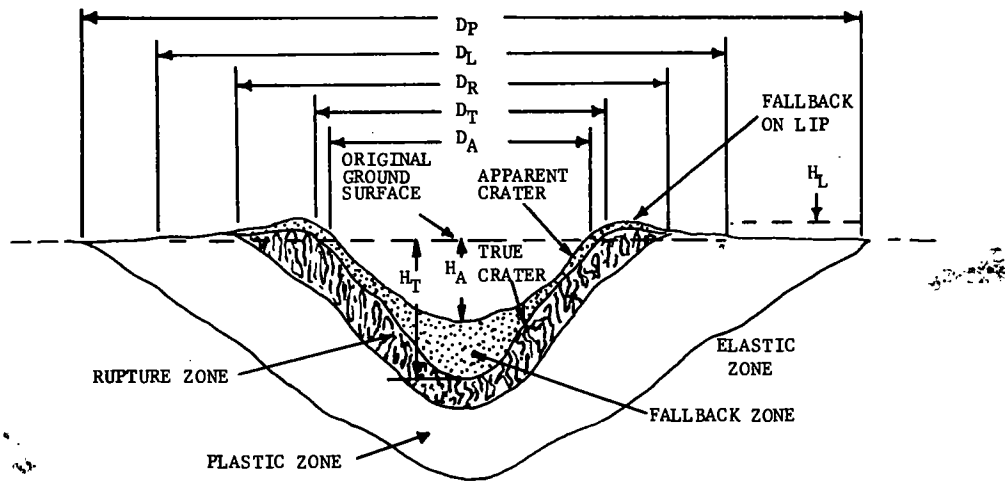
CRATER GRAPH

RADIUS OF RUPTURE (DRY SOIL OR SOFT ROCK)



NOTE: To obtain radii of rupture in hard rock or concrete, multiply radius of rupture (dry soil or soft rock) by 0.8.

CRATER PROFILE



D_A = DIAMETER OF APPARENT CRATER

H_A = DEPTH OF APPARENT CRATER

D_T = DIAMETER OF TRUE CRATER

H_T = DEPTH OF TRUE CRATER

D_L = DIAMETER OF LIP = $2.0 D_A \pm 25\%$

R_A = RADIUS OF APPARENT CRATER = $\frac{D_A}{2}$

R_C = RADIUS OF CAVITY

$R = 45(W)^{1/3}$ FT OR $14 (W)^{1/3}$ METERS

H_L = HEIGHT OF LIP = $0.25 H_A \pm 50\%$

D_R = DIAMETER OF RUPTURE ZONE = $1.5 D_A \pm 25\%$

D_P = DIAMETER OF PLASTIC ZONE = $3 D_A \pm 50\%$

V_C = VOLUME OF APPARENT CRATER = $\frac{\pi}{2} H_A (R_A)^2$

H_T = DOB + R_C

RADII OF SAFETY TABLES

RADIUS OF SAFETY, .01 KT						
DOB	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED	
	NEG RISK	EMERG RISK	NEG RISK	EMERG RISK	NEG RISK	EMERG RISK
0	1200	800	1200	800	900	600
1	1200	800	1200	800	900	600
2	1200	800	1200	800	900	600
4	1200	900	1200	900	900	900
6	1100	800	1100	800	900	800
8	1000	700	1000	700	800	700
10	900	600	900	600	700	600
14	700	500	700	500	600	500
25	200	100	200	100	200	100
45	100	100	100	100	100	100

RADIUS OF SAFETY, 0.5 KT						
DOB	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED	
	NEG RISK	EMERG RISK	NEG RISK	EMERG RISK	NEG RISK	EMERG RISK
0	1600	1200	1600	1200	1400	1000
1	1600	1200	1600	1200	1400	1000
2	1600	1200	1600	1200	1400	1000
4	1600	1200	1600	1200	1400	1000
6	1600	1400	1600	1400	1400	1400
8	1700	1700	1700	1700	1700	1700
10	1800	1800	1800	1800	1800	1800
14	1600	1600	1600	1600	1600	1600
25	1200	1200	1200	1200	1200	1200
45	600	600	600	600	600	600

RADIUS OF SAFETY, 10.00 KT						
DOB	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED	
	NEG RISK	EMERG RISK	NEG RISK	EMERG RISK	NEG RISK	EMERG RISK
0	3400	2700	2400	1900	2100	1600
1	3400	2700	2400	1900	2100	1600
3	3400	2700	2400	1900	2100	1600
5	3400	2700	2400	1900	2100	1600
7	3400	2700	2400	1900	2100	1600
10	3400	2700	2400	1900	2100	1900
14	3300	3000	3000	3000	3000	3000
18	3700	3700	3700	3700	3700	3700
30	4800	4800	4800	4800	4800	4800
65	3700	3700	3700	3700	3700	3700
100	2700	2700	2700	2700	2700	2700

RADIUS OF SAFETY, 50.00 KT						
DOB	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED	
	NEG RISK	EMERG RISK	NEG RISK	EMERG RISK	NEG RISK	EMERG RISK
0	8500	6400	4400	3700	2600	2200
1	8500	6400	4400	3700	2600	2200
3	8500	6400	4400	3700	2600	2200
5	8500	6400	4400	3700	2600	2200
7	8500	6400	4400	3700	2600	2200
10	8500	6400	4400	3700	2600	2200
14	8500	6400	4400	3700	2600	2200
18	8500	6400	4400	3700	3200	3200
30	8200	6200	5800	5800	5800	5800
65	8000	8000	8000	8000	8000	8000
100	7000	7000	7000	7000	7000	7000

NOTE - Tables above show distances for initial effects only. A fallout prediction is necessary.

RADIUS OF FIRE AREAS SURFACE AND SUBSURFACE BURSTS

		50 PERCENT RELATIVE HUMIDITY	
YIELD	DOB	DRY FUEL	GREEN FUEL
0.01	0	150	95
	3	140	90
	5	130	80
	10	100	65
	15	75	45
0.50	0	435	275
	3	435	275
	5	425	265
	10	390	245
	15	350	220
10.00	0	2170	1360
	5	2170	1360
	10	2170	1360
	15	2120	1330
	20	2060	1290
	25	2000	1255
	30	1940	1220
	35	1885	1180
50.00	0	5185	3250
	5	5185	3250
	10	5185	3250
	15	5185	3250
	20	5180	3250
	25	5100	3200
	30	5025	3150
	35	4945	3100

CHAPTER 11

COVERAGE TABLES FOR

SURFACE BURST

PROMPT CASUALTIES TO EXPOSED PERSONNEL

	Page
Free Flight Rocket 5.0 KT	213
10.0 KT	215
50.0 KT	217
100.0 KT	219
Light Guided Missile 2, 5, 10, and 20 KT	221
Medium Guided Missile 10, 20, 50, 100, and 200 KT	223
Heavy Guided Missile 200, 500, 1,000, 2,000, and 5,000 KT	225
Aircraft Delivered Weapons 5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, and 5,000 KT.....	227

TABLES OF MAXIMUM TARGET RADIUS (.3 Probable Minimum Coverage)

(Distances in Meters)

SURFACE BURST

PROMPT CASUALTIES TO EXPOSED PERSONNEL

Range	Free Flight Rocket			
	5	10	50	100
5000	1600	1800	3600	5200
6000	1600	1800	3600	5200
7000	1600	1800	3600	5200
8000	1600	1800	3600	5200
9000	1600	1800	3600	5200
10000	1600	1800	3600	5200
12000	1600	1800	3600	5200
14000	1600	1800	3600	5200
16000	1600	1800	3600	5200
18000	1600	1800	3600	5200
20000	1600	1800	3600	5200
22000	1600	1800	3600	5200
24000	1600	1800	3600	5200
26000	1400	1800	3600	5200
28000	1400	1800	3600	5200
30000	1400	1800	3600	5200
32000	1400	1800	3600	5200
34000	1400	1800	3600	5200
36000	1400	1800	3600	5200
38000	1200	1800	3600	5200
40000		1600	3600	5200

Light Guided Missile				
2	5	10	20	
1200	1600	1800	2600	

Medium Guided Missile				
10	20	50	100	200
1800	2400	3800	4600	6400

Heavy Guided Missile				
200	500	1000	2000	5000
7000	10000	13000	15000	20000

Aircraft Delivered Weapons									
5	10	20	50	100	200	500	1000	2000	5000
1600	1800	2400	3600	5000	7000	10000	14000	14000	20000

NOTE: Blank spaces indicate either the target is out of range or a probable minimum coverage of .3 cannot be obtained.

FREE FLIGHT ROCKET 5.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	2400	1900	2400	1800	2000	1600	600	2000	3400	700	700	1500	1000
6000	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1500	1000
7000	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1600	1000
8000	2500	2000	2500	2000	2100	1700	600	2000	3400	700	700	1600	1100
9000	2500	2000	2500	2000	2200	1700	600	2100	3500	800	700	1600	1100
10000	2600	2000	2600	2000	2200	1700	700	2100	3500	800	700	1600	1100
11000	2600	2100	2600	2100	2200	1800	700	2100	3500	800	800	1600	1100
12000	2600	2100	2600	2100	2300	1800	700	2100	3500	800	800	1700	1100
13000	2700	2100	2700	2100	2300	1800	700	2100	3500	800	800	1700	1200
14000	2700	2200	2700	2200	2300	1900	700	2200	3600	900	800	1700	1200
15000	2700	2200	2700	2200	2400	1900	800	2200	3600	900	800	1700	1200
16000	2800	2200	2800	2200	2400	1900	800	2200	3600	900	900	1700	1200
17000	2800	2300	2800	2300	2500	2000	800	2200	3600	900	900	1800	1200
18000	2800	2300	2800	2300	2500	2000	800	2200	3600	900	900	1800	1300
19000	2900	2300	2900	2300	2500	2100	800	2200	3700	900	900	1800	1300
20000	2900	2400	2900	2400	2600	2100	900	2300	3700	1000	900	1800	1300
21000	2900	2400	2900	2400	2600	2100	900	2300	3700	1000	1000	1800	1300
22000	3000	2400	3000	2400	2600	2200	900	2300	3700	1000	1000	1800	1300
23000	3000	2500	3000	2500	2700	2200	900	2300	3700	1000	1000	1900	1400
24000	3000	2500	3000	2500	2700	2200	900	2300	3700	1000	1000	1900	1400
25000	3100	2600	3100	2500	2700	2300	900	2400	3800	1100	1000	1900	1400
26000	3100	2600	3100	2600	2800	2300	1000	2400	3800	1100	1100	1900	1400
27000	3100	2600	3100	2600	2800	2300	1000	2400	3800	1100	1100	1900	1400
28000	3200	2700	3200	2700	2800	2400	1000	2400	3800	1100	1100	2000	1400
29000	3200	2700	3200	2700	2900	2400	1000	2400	3800	1100	1100	2000	1500
30000	3300	2700	3300	2700	2900	2400	1000	2500	3900	1200	1100	2000	1500
31000	3300	2800	3300	2800	2900	2500	1100	2500	3900	1200	1100	2000	1500
32000	3300	2800	3300	2800	3000	2500	1100	2500	3900	1200	1200	2000	1500
33000	3400	2800	3400	2800	3000	2500	1100	2500	3900	1200	1200	2100	1500
34000	3400	2900	3400	2900	3000	2600	1100	2500	3900	1200	1200	2100	1600
35000	3400	2900	3400	2900	3100	2600	1100	2600	4000	1200	1200	2100	1600
36000	3500	2900	3500	2900	3100	2600	1200	2600	4000	1300	1200	2100	1600
37000	3500	3000	3500	3000	3200	2700	1200	2600	4000	1300	1300	2100	1600
38000	3500	3000	3500	3000	3200	2700	1200	2600	4000	1300	1300	2200	1600
39000	3600	3000	3600	3000	3200	2800	1200	2600	4000	1300	1300	2200	1700
40000	3600	3100	3600	3100	3300	2800	1200	2600	4100	1300	1300	2200	1700

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH

24 36 30 45

FREE FLIGHT ROCKET 5.0 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	600	800	1000	1200	1400	1600	1800	2000		CD 90	CEP	HOB	PEH
5000	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	128	70	-0	-0
6000	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	154	84	-0	-0
7000	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	180	98	-0	-0
8000	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	205	112	-0	-0
9000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	231	127	-0	-0
10000	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	257	141	-0	-0
11000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	283	155	-0	-0
12000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	308	169	-0	-0
13000	.8/.9	.7/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	334	183	-0	-0
14000	.8/.9	.7/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	360	197	-0	-0
15000	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	385	211	-0	-0
16000	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	411	225	-0	-0
17000	.8/.9	.6/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	437	239	-0	-0
18000	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	463	254	-0	-0
19000	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	488	268	-0	-0
20000	.7/.8	.6/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	514	282	-0	-0
21000	.7/.8	.6/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	540	296	-0	-0
22000	.6/.8	.5/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	566	310	-0	-0
23000	.6/.8	.5/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	591	324	-0	-0
24000	.6/.8	.5/.7	.4/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	617	338	-0	-0
25000	.6/.8	.5/.7	.4/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	785	643	352	-0	-0
26000	.5/.8	.5/.7	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	785	668	367	-0	-0
27000	.5/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.3	.2/.2	.2/.2	785	694	381	-0	-0
28000	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	785	720	395	-0	-0
29000	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	785	746	409	-0	-0
30000	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	785	771	423	-0	-0
31000	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	785	797	437	-0	-0
32000	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	785	823	451	-0	-0
33000	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	785	849	465	-0	-0
34000	.3/.7	.3/.6	.3/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	785	874	479	-0	-0
35000	.3/.7	.3/.6	.3/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	785	900	494	-0	-0
36000	.3/.6	.3/.6	.3/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	785	926	508	-0	-0
37000	.3/.6	.3/.6	.3/.5	.3/.4	.2/.3	.2/.3	.2/.2	.2/.2	785	951	522	-0	-0
38000	.3/.6	.3/.5	.3/.5	.3/.4	.2/.3	.2/.3	.2/.2	.2/.2	785	977	536	-0	-0
39000	.2/.6	.3/.5	.3/.5	.3/.4	.2/.3	.2/.3	.2/.2	.2/.2	785	1003	550	-0	-0
40000	.2/.6	.2/.5	.2/.4	.2/.4	.2/.3	.2/.3	.2/.2	.2/.2	785	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 10.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	3600	2800	2600	2000	2200	1700	800	2600	4500	900	800	2300	1500
6000	3600	2900	2600	2100	2300	1800	800	2700	4600	1000	900	2300	1500
7000	3600	2900	2700	2100	2300	1800	800	2700	4600	1000	900	2400	1500
8000	3700	3000	2700	2200	2300	1800	800	2700	4600	1000	900	2400	1600
9000	3700	3000	2700	2200	2400	1900	800	2700	4600	1000	900	2400	1600
10000	3800	3000	2800	2200	2400	1900	800	2700	4600	1000	900	2400	1600
11000	3800	3100	2800	2300	2500	2000	900	2800	4700	1100	1000	2400	1600
12000	3800	3100	2900	2300	2500	2000	900	2800	4700	1100	1000	2400	1600
13000	3900	3100	2900	2300	2500	2000	900	2800	4700	1100	1000	2500	1700
14000	3900	3200	2900	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
15000	3900	3200	3000	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
16000	4000	3200	3000	2400	2600	2100	1000	2800	4800	1100	1100	2500	1700
17000	4000	3300	3000	2500	2700	2200	1000	2900	4800	1200	1100	2500	1700
18000	4000	3300	3100	2500	2700	2200	1000	2900	4800	1200	1100	2600	1800
19000	4100	3300	3100	2500	2700	2200	1000	2900	4800	1200	1100	2600	1800
20000	4100	3400	3100	2600	2800	2300	1000	2900	4800	1200	1100	2600	1800
21000	4100	3400	3200	2600	2800	2300	1100	2900	4800	1200	1200	2600	1800
22000	4200	3400	3200	2600	2800	2300	1100	3000	4900	1300	1200	2600	1800
23000	4200	3500	3200	2700	2900	2400	1100	3000	4900	1300	1200	2700	1800
24000	4200	3500	3300	2700	2900	2400	1100	3000	4900	1300	1200	2700	1900
25000	4300	3500	3300	2700	2900	2400	1100	3000	4900	1300	1200	2700	1900
26000	4300	3600	3300	2800	3000	2500	1200	3000	4900	1300	1200	2700	1900
27000	4300	3600	3400	2800	3000	2500	1200	3100	5000	1400	1300	2700	1900
28000	4400	3700	3400	2900	3000	2500	1200	3100	5000	1400	1300	2800	1900
29000	4400	3700	3400	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
30000	4500	3700	3500	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
31000	4500	3800	3500	3000	3200	2700	1200	3100	5000	1400	1300	2800	2000
32000	4500	3800	3600	3000	3200	2700	1300	3200	5100	1500	1400	2800	2000
33000	4600	3800	3600	3000	3200	2700	1300	3200	5100	1500	1400	2800	2000
34000	4600	3900	3600	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
35000	4600	3900	3700	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
36000	4700	3900	3700	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
37000	4700	4000	3700	3200	3400	2900	1400	3200	5200	1500	1500	2900	2100
38000	4700	4000	3800	3200	3400	2900	1400	3300	5200	1600	1500	2900	2100
39000	4800	4000	3800	3200	3400	2900	1400	3300	5200	1600	1500	3000	2200
40000	4800	4100	3800	3300	3500	3000	1400	3300	5200	1600	1500	3000	2200

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH

32	47	40	59
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FREE FLIGHT ROCKET 10.0 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	800	1000	1200	1400	1600	1800	2000	2200					
5000	.9/.9	.8/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	128	70	-0	-0
6000	.9/.9	.8/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	154	84	-0	-0
7000	.9/.9	.8/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	180	98	-0	-0
8000	.9/.9	.8/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	205	112	-0	-0
9000	.9/.9	.8/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	231	127	-0	-0
10000	.9/.9	.7/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	257	141	-0	-0
11000	.9/.9	.7/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	283	155	-0	-0
12000	.8/.9	.7/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	308	169	-0	-0
13000	.8/.9	.7/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	334	183	-0	-0
14000	.8/.9	.7/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	360	197	-0	-0
15000	.8/.9	.7/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	385	211	-0	-0
16000	.8/.9	.7/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	411	225	-0	-0
17000	.8/.9	.6/.7	.5/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	437	239	-0	-0
18000	.7/.8	.6/.7	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	463	254	-0	-0
19000	.7/.8	.6/.7	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	488	268	-0	-0
20000	.7/.8	.6/.7	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	514	282	-0	-0
21000	.7/.8	.6/.7	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	540	296	-0	-0
22000	.7/.8	.6/.7	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	566	310	-0	-0
23000	.7/.8	.6/.7	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	591	324	-0	-0
24000	.6/.8	.6/.7	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	617	338	-0	-0
25000	.6/.8	.5/.7	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	643	352	-0	-0
26000	.6/.8	.5/.7	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	668	367	-0	-0
27000	.6/.8	.5/.6	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	694	381	-0	-0
28000	.6/.8	.5/.6	.4/.5	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	720	395	-0	-0
29000	.5/.7	.5/.6	.4/.5	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	746	409	-0	-0
30000	.5/.7	.5/.6	.4/.5	.4/.5	.3/.3	.3/.3	.2/.2	.2/.2	925	771	423	-0	-0
31000	.5/.7	.5/.6	.4/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	925	797	437	-0	-0
32000	.5/.7	.4/.6	.4/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	925	823	451	-0	-0
33000	.5/.7	.4/.6	.4/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	925	849	465	-0	-0
34000	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.3/.3	.2/.2	.2/.2	925	874	479	-0	-0
35000	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.3/.3	.2/.2	.2/.2	925	900	494	-0	-0
36000	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.3/.3	.2/.2	.2/.2	925	926	508	-0	-0
37000	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.3/.3	.2/.2	.2/.2	925	951	522	-0	-0
38000	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.3/.3	.2/.2	.2/.2	925	977	536	-0	-0
39000	.4/.6	.3/.6	.3/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	925	1003	550	-0	-0
40000	.3/.6	.3/.6	.3/.5	.3/.4	.3/.3	.2/.3	.2/.2	.2/.2	925	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 50.0 KT

SAFETY DISTANCE TABLE (Distances in meters)

TROOP SAFETY							PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
RANGE	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
5000	8700	6600	4500	3900	2800	2400	1300	4700	8100	1700	1600	5300	3400
6000	8700	6600	4600	3900	2800	2400	1300	4700	8200	1700	1600	5300	3400
7000	8800	6600	4600	3900	2900	2500	1400	4700	8200	1700	1600	5400	3400
8000	8800	6700	4600	4000	2900	2500	1400	4700	8200	1800	1600	5400	3500
9000	8800	6700	4700	4000	2900	2500	1400	4800	8200	1800	1700	5400	3500
10000	8900	6800	4700	4000	3000	2600	1400	4800	8200	1800	1700	5400	3500
11000	8900	6800	4800	4100	3000	2600	1400	4800	8300	1800	1700	5400	3500
12000	8900	6800	4800	4100	3000	2600	1500	4800	8300	1800	1700	5500	3500
13000	9000	6900	4800	4100	3100	2700	1500	4800	8300	1900	1700	5500	3500
14000	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1700	5500	3600
15000	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1800	5500	3600
16000	9100	7000	4900	4300	3200	2800	1500	4900	8300	1900	1800	5500	3600
17000	9100	7000	5000	4300	3200	2800	1600	4900	8400	1900	1800	5600	3600
18000	9100	7000	5000	4300	3200	2800	1600	4900	8400	1900	1800	5600	3600
19000	9200	7100	5000	4400	3300	2900	1600	4900	8400	2000	1800	5600	3700
20000	9200	7100	5100	4400	3300	2900	1600	5000	8400	2000	1900	5600	3700
21000	9200	7100	5100	4400	3300	2900	1600	5000	8400	2000	1900	5600	3700
22000	9300	7200	5100	4500	3400	3000	1600	5000	8500	2000	1900	5700	3700
23000	9300	7200	5200	4500	3400	3000	1700	5000	8500	2000	1900	5700	3700
24000	9300	7200	5200	4500	3400	3000	1700	5000	8500	2100	1900	5700	3800
25000	9400	7300	5200	4600	3500	3100	1700	5100	8500	2100	2000	5700	3800
26000	9400	7300	5300	4600	3500	3100	1700	5100	8500	2100	2000	5700	3800
27000	9500	7300	5300	4600	3600	3200	1700	5100	8600	2100	2000	5700	3800
28000	9500	7400	5300	4700	3600	3200	1800	5100	8600	2100	2000	5800	3800
29000	9500	7400	5400	4700	3600	3200	1800	5100	8600	2200	2000	5800	3900
30000	9600	7500	5400	4700	3700	3300	1800	5200	8600	2200	2000	5800	3900
31000	9600	7500	5500	4800	3700	3300	1800	5200	8600	2200	2100	5800	3900
32000	9600	7500	5500	4800	3700	3300	1800	5200	8700	2200	2100	5800	3900
33000	9700	7600	5500	4800	3800	3400	1900	5200	8700	2200	2100	5900	3900
34000	9700	7600	5600	4900	3800	3400	1900	5200	8700	2300	2100	5900	3900
35000	9700	7600	5600	4900	3800	3400	1900	5200	8700	2300	2100	5900	4000
36000	9800	7700	5600	5000	3900	3500	1900	5300	8700	2300	2200	5900	4000
37000	9800	7700	5700	5000	3900	3500	1900	5300	8700	2300	2200	5900	4000
38000	9800	7700	5700	5000	3900	3500	1900	5300	8800	2300	2200	6000	4000
39000	9900	7800	5700	5100	4000	3600	2000	5300	8800	2300	2200	6000	4000
40000	9900	7800	5800	5100	4000	3600	2000	5300	8800	2400	2200	6000	4100

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
53	79	67	98

FREE FLIGHT ROCKET 50.0 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
RANGE	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	1600	2000	2400	2800	3200	3600	4000	4400					
5000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	128	70	-0	-0
6000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	154	84	-0	-0
7000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	180	98	-0	-0
8000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	205	112	-0	-0
9000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	231	127	-0	-0
10000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	257	141	-0	-0
11000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	283	155	-0	-0
12000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	308	169	-0	-0
13000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	334	183	-0	-0
14000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	360	197	-0	-0
15000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	385	211	-0	-0
16000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	411	225	-0	-0
17000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	437	239	-0	-0
18000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	463	254	-0	-0
19000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	488	268	-0	-0
20000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	514	282	-0	-0
21000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	540	296	-0	-0
22000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	566	310	-0	-0
23000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	591	324	-0	-0
24000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	617	338	-0	-0
25000	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	643	352	-0	-0
26000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	668	367	-0	-0
27000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	694	381	-0	-0
28000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	720	395	-0	-0
29000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	746	409	-0	-0
30000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	771	423	-0	-0
31000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	797	437	-0	-0
32000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	823	451	-0	-0
33000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	849	465	-0	-0
34000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	874	479	-0	-0
35000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	900	494	-0	-0
36000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	926	508	-0	-0
37000	.3/.9	.6/.8	.5/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	951	522	-0	-0
38000	.8/.9	.6/.7	.5/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	977	536	-0	-0
39000	.7/.9	.6/.7	.5/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	1003	550	-0	-0
40000	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	1904	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 100.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	12300	9100	6200	5200	3800	3200	1700	5900	10200	2100	2000	7400	4700
6000	12300	9100	6300	5300	3800	3200	1700	5900	10200	2100	2000	7400	4700
7000	12400	9200	6300	5300	3800	3300	1700	5900	10300	2100	2100	7400	4700
8000	12400	9200	6300	5300	3900	3300	1700	5900	10300	2200	2100	7400	4700
9000	12400	9200	6400	5400	3900	3300	1700	5900	10300	2200	2100	7500	4800
10000	12500	9300	6400	5400	3900	3400	1800	6000	10300	2200	2100	7500	4800
11000	12500	9300	6400	5400	4000	3400	1800	6000	10300	2200	2100	7500	4800
12000	12500	9300	6500	5500	4000	3400	1800	6000	10400	2200	2200	7500	4800
13000	12600	9400	6500	5500	4000	3500	1800	6000	10400	2300	2200	7500	4800
14000	12600	9400	6500	5600	4100	3500	1800	6000	10400	2300	2200	7600	4900
15000	12700	9400	6600	5600	4100	3500	1900	6000	10400	2300	2200	7600	4900
16000	12700	9500	6600	5600	4200	3600	1900	6100	10400	2300	2200	7600	4900
17000	12700	9500	6600	5700	4200	3600	1900	6100	10400	2300	2200	7600	4900
18000	12800	9500	6700	5700	4200	3600	1900	6100	10500	2300	2300	7600	4900
19000	12800	9600	6700	5700	4300	3700	1900	6100	10500	2400	2300	7600	4900
20000	12800	9600	6700	5800	4300	3700	1900	6100	10500	2400	2300	7700	5000
21000	12900	9600	6800	5800	4300	3800	2000	6200	10500	2400	2300	7700	5000
22000	12900	9700	6800	5800	4400	3800	2000	6200	10500	2400	2300	7700	5000
23000	12900	9700	6800	5900	4400	3800	2000	6200	10600	2400	2400	7700	5000
24000	13000	9700	6900	5900	4400	3900	2000	6200	10600	2500	2400	7700	5000
25000	13000	9800	6900	5900	4500	3900	2000	6200	10600	2500	2400	7800	5100
26000	13000	9800	7000	6000	4500	3900	2100	6300	10600	2500	2400	7800	5100
27000	13100	9900	7000	6000	4500	4000	2100	6300	10600	2500	2400	7800	5100
28000	13100	9900	7000	6000	4600	4000	2100	6300	10700	2500	2500	7800	5100
29000	13100	9900	7100	6100	4600	4000	2100	6300	10700	2600	2500	7800	5100
30000	13200	10000	7100	6100	4600	4100	2100	6300	10700	2600	2500	7900	5200
31000	13200	10000	7100	6100	4700	4100	2200	6400	10700	2600	2500	7900	5200
32000	13200	10000	7200	6200	4700	4100	2200	6400	10700	2600	2500	7900	5200
33000	13300	10100	7200	6200	4700	4200	2200	6400	10700	2600	2600	7900	5200
34000	13300	10100	7200	6300	4800	4200	2200	6400	10800	2700	2600	7900	5200
35000	13400	10100	7300	6300	4800	4200	2200	6400	10800	2700	2600	8000	5300
36000	13400	10200	7300	6300	4900	4300	2300	6400	10800	2700	2600	8000	5300
37000	13400	10200	7300	6400	4900	4300	2300	6500	10800	2700	2600	8000	5300
38000	13500	10200	7400	6400	4900	4300	2300	6500	10800	2700	2600	8000	5300
39000	13500	10300	7400	6400	5000	4400	2300	6500	10900	2700	2700	8000	5300
40000	13500	10300	7400	6500	5000	4400	2300	6500	10900	2800	2700	8000	5300

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RAIUS	DEPTH	RAIUS	DEPTH
65	96	82	120

FREE FLIGHT ROCKET 100.0 KT

PROMPT CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
RANGE									PROB.				
	RADIUS OF TARGET								MIN. RD	CD 90	CEP	HOB	PEH
	2400	2800	3200	3600	4400	4800	5200	5600					
5000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	128	70	-0	-0
6000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	154	84	-0	-0
7000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	180	98	-0	-0
8000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	205	112	-0	-0
9000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	231	127	-0	-0
10000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	257	141	-0	-0
11000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	283	155	-0	-0
12000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	308	169	-0	-0
13000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	334	183	-0	-0
14000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	360	197	-0	-0
15000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	385	211	-0	-0
16000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	411	225	-0	-0
17000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	437	239	-0	-0
18000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	463	254	-0	-0
19000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	488	268	-0	-0
20000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	514	282	-0	-0
21000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	540	296	-0	-0
22000	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	566	310	-0	-0
23000	.8/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	591	324	-0	-0
24000	.8/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	617	338	-0	-0
25000	.8/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	643	352	-0	-0
26000	.8/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	668	367	-0	-0
27000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	694	381	-0	-0
28000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	720	395	-0	-0
29000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	746	409	-0	-0
30000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	771	423	-0	-0
31000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	797	437	-0	-0
32000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	823	451	-0	-0
33000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	849	465	-0	-0
34000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	874	479	-0	-0
35000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	900	494	-0	-0
36000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	926	508	-0	-0
37000	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	951	522	-0	-0
38000	.8/.8	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	977	536	-0	-0
39000	.8/.8	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	1003	550	-0	-0
40000	.8/.8	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	2569	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

LIGHT GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
2 KT	2200	1700	2200	1700	1900	1400	500	1500	2500	500	500	1000	700
5 KT	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1500	1000
10 KT	3600	2900	2600	2100	2300	1800	800	2700	4600	1000	900	2300	1500
20 KT	5500	4300	3000	2600	2500	2000	1000	3500	6000	1300	1200	3500	2200

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
2 KT	18	4	23	5
5 KT	24	5	30	6
10 KT	32	7	40	8
20 KT	41	15	51	19

LIGHT GUIDED MISSILE

PROMPT CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
2KT	500	600	800	900	1000	1200	1400	1600	656	182	100	-0	-0
	.9/.9	.8/.9	.7/.7	.6/.6	.5/.5	.3/.3	.2/.2	.2/.2					
5 KT	600	800	1000	1200	1400	1600	1800	2000	785	182	100	-0	-0
	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2					
10 KT	800	1000	1200	1400	1600	1800	2000	2200	925	182	100	-0	-0
	.9/.9	.8/.8	.6/.6	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2					
20 KT	1200	1600	1800	2000	2200	2400	2600	3000	1297	182	100	-0	-0
	/ .9	.7/.7	.5/.5	.4/.4	.4/.4	.3/.3	.3/.3	.2/.2					

Range span 10,000 - 50,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

MEDIUM GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
10 KT	4400	3700	3400	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
20 KT	6300	5100	3800	3400	3300	2800	1400	3900	6500	1700	1600	3900	2700
50 KT	9500	7400	5400	4700	3600	3200	1800	5100	8600	2200	2000	5800	3800
100 KT	13100	9900	7000	6100	4600	4000	2100	6300	10700	2600	2500	7800	5100
200 KT	18300	13300	9300	8000	6000	5100	2500	7800	13300	3100	3100	10700	6900

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
10 KT	32	11	40	14
20 KT	41	15	51	19
50 KT	53	19	67	24
100 KT	65	24	82	30
200 KT	80	29	100	36

MEDIUM GUIDED MISSILE

PROMPT CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
YIELD	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
10 KT	600 .4/.8	800 .4/.7	1000 .4/.6	1200 .4/.5	1400 .3/.4	1600 .3/.3	1800 .3/.3	2000 .2/.2	925	911	500	-0	-0
20 KT	800 .7/.9	1200 .6/.8	1600 .5/.6	2000 .4/.4	2400 .3/.3	2800 .2/.2	3200 .2/.2	3600 .1/.1	1297	911	500	-0	-0
50 KT	1600 .8/.9	2200 .6/.7	2600 .5/.6	3000 .4/.4	3400 .3/.3	3800 .3/.3	4200 .2/.2	4600 .2/.2	1904	911	500	-0	-0
100 KT	2000 .9/.9	2600 .7/.8	3200 .6/.6	3800 .5/.5	4600 .3/.3	5400 .2/.2	6000 .2/.2	6600 .2/.2	2569	911	500	-0	-0
200 KT	3200 .8/.9	4000 .7/.7	4800 .6/.6	5600 .4/.4	6400 .3/.3	7200 .2/.2	8000 .2/.2	8800 .2/.2	3514	911	500	-0	-0

Range span 50,000 - 150,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

HEAVY GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
200 KT	19300	14300	10300	9000	7000	6100	3100	8300	13800	3700	3600	11200	7500
500 KT	29600	20900	14800	12600	9600	8300	3900	10900	18400	4700	4600	16700	10900
1000 KT	41200	28000	19600	16700	12500	10700	4600	13400	22800	5700	5500	22800	14700
2000 KT	45900	30800	21600	18300	13600	11700	4900	14400	24500	6200	5800	25200	16200
5000 KT	64200	41400	29000	24800	18000	15400	5900	17800	30600	7800	7100	34400	22000

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
200 KT	80	58	100	73
500 KT	104	76	130	95
1000 KT	127	93	159	117
2000 KT	135	99	169	124
5000 KT	165	121	207	152

HEAVY GUIDED MISSILE

PROMPT CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
200 KT	2000	3000	4000	5000	6000	7000	8000	9000	3514	1822	1000	-0	-0
	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2					
500 KT	4000	5000	6000	7000	8000	9000	10000	11000	5264	1822	1000	-0	-0
	.9/.9	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2					
1000 KT	6000	8000	9000	10000	11000	12000	13000	15000	7105	1822	1000	-0	-0
	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.4/.4	.3/.3	.2/.2					
2000 KT	8000	10000	11000	12000	13000	14000	15000	17000	7819	1822	1000	-0	-0
	.8/.8	.6/.6	.5/.5	.4/.4	.4/.4	.3/.3	.3/.3	.2/.2					
5000 KT	10000	12000	14000	16000	18000	20000	22000	24000	10487	1822	1000	-0	-0
	.9/.9	.7/.7	.6/.6	.4/.4	.4/.4	.3/.3	.2/.2	.2/.2					

Range span 50,000 - 300,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

AIRCRAFT DELIVERED WEAPONS

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5 KT	2700	2200	2700	2200	2400	1900	700	2200	3600	900	800	1700	1200
10 KT	3900	3200	2900	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
20 KT	5800	4600	3300	2900	2800	2300	1200	3700	6200	1500	1300	3600	2400
50 KT	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1800	5500	3600
100 KT	12600	9400	6500	5600	4100	3500	1800	6000	10400	2300	2200	7600	4900
200 KT	17800	12800	8800	7500	5500	4600	2300	7500	13000	2800	2800	10400	6600
500 KT	28100	19400	13300	11100	8100	6800	3000	10100	17500	3900	3800	15900	10100
1000 KT	39700	26500	18100	15200	11000	9200	3800	12600	22000	4900	4700	22000	13900
2000 KT	44400	29300	20100	16800	12100	10200	4100	13600	23700	5400	5000	24400	15400
5000 KT	62700	39900	27500	23100	16500	13900	5100	17000	29700	7000	6300	33600	21200

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
5 KT	24	9	30	11
10 KT	32	11	40	14
20 KT	41	15	51	19
50 KT	53	19	67	24
100 KT	65	24	82	30
200 KT	80	29	100	36
500 KT	104	38	130	47
1000 KT	127	46	159	58
2000 KT	135	99	169	124
5000 KT	165	121	207	152

AIRCRAFT DELIVERED WEAPONS

PROMPT CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
5 KT	400	600	800	1000	1200	1400	1600	1800	785	455	250	-0	-0
	.9/.9	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2					
10 KT	600	800	1000	1200	1400	1600	1800	2000	925	455	250	-0	-0
	.9/.9	.8/.9	.6/.7	.5/.6	.4/.5	.3/.3	.3/.3	.2/.2					
20 KT	1000	1400	1800	2000	2200	2400	2800	3200	1297	455	250	-0	-0
	.9/.9	.7/.8	.5/.5	.4/.4	.4/.4	.3/.3	.2/.2	.2/.2					
50 KT	1200	1600	2000	2400	2800	3200	3600	4000	1904	455	250	-0	-0
	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2					
100 KT	2600	3000	3400	3800	4200	4600	5000	5400	2569	455	250	-0	-0
	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2					
200 KT	2400	3000	3800	4600	5400	6200	7000	7800	3514	455	250	-0	-0
	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2					
500 KT	5000	6000	7000	8000	9000	10000	11000	12000	5264	455	250	-0	-0
	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2					
1000 KT	6000	8000	10000	12000	14000	16000	18000	20000	7105	455	250	-0	-0
	.9/.9	.8/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					
2000 KT	8000	10000	12000	14000	16000	18000	20000	22000	7819	455	250	-0	-0
	.8/.8	.6/.6	.4/.4	.4/.3	.2/.2	.2/.2	.2/.2	.1/.1					
5000 KT	10000	12000	14000	16000	18000	20000	22000	24000	10487	455	250	-0	-0
	.9/.9	.7/.7	.6/.6	.4/.4	.4/.4	.3/.3	.2/.2	.2/.2					

A FALLOUT PREDICTION SHOULD BE MADE

CHAPTER 12

COVERAGE TABLES FOR

SURFACE BURST

DELAYED CASUALTIES TO EXPOSED PERSONNEL

	Page
Free Flight Rocket 5.0 KT	231
10.0 KT	233
50.0 KT	235
100.0 KT	237
Light Guided Missile 2, 5, 10, and 20 KT	239
Medium Guided Missile 10, 20, 50, 100, and 200 KT	241
Heavy Guided Missile 200, 500, 1,000, 2,000, and 5,000 KT	243
Aircraft Delivered Weapons 5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, and 5,000 KT	245

TABLES OF MAXIMUM TARGET RADIUS (.3 Probable Minimum Coverage)

(Distances in Meters)

SURFACE BURST

DELAYED CASUALTIES TO EXPOSED PERSONNEL

Range	Free Flight Rocket			
	5	10	50	100
5000	2000	2400	3600	5000
6000	2000	2400	3600	5000
7000	2000	2400	3600	5000
8000	2000	2400	3600	5000
9000	2000	2400	3600	5000
10000	2000	2400	3600	5000
12000	2000	2400	3600	5000
14000	2000	2400	3600	5000
16000	2000	2400	3600	5000
18000	2000	2400	3600	5000
20000	2000	2400	3600	5000
22000	2000	2400	3600	5000
24000	2000	2400	3600	5000
26000	2000	2400	3600	5000
28000	2000	2400	3600	5000
30000	2000	2400	3600	5000
32000	2000	2400	3600	5000
34000	2000	2400	3600	5000
36000	2000	2400	3600	5000
38000	2000	2400	3600	5000
40000	2000	2400	3600	5000

Light Guided Missile			
2	5	10	20
1600	2000	2400	2400

Medium Guided Missile				
10	20	50	100	200
2400	2400	3600	5000	6400

Heavy Guided Missile				
200	500	1000	2000	5000
6800	10000	14000	14000	20000

Aircraft Delivered Weapons									
5	10	20	50	100	200	500	1000	2000	5000
2000	2400	2400	3600	5000	7000	10000	14000	14000	20000

NOTE: Blank spaces indicate either the target is out of range or a probable minimum coverage of .3 cannot be obtained.

FREE FLIGHT ROCKET 5.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	2400	1900	2400	1800	2000	1600	600	2000	3400	700	700	1500	1000
6000	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1500	1000
7000	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1600	1000
8000	2500	2000	2500	2000	2100	1700	600	2000	3400	700	700	1600	1100
9000	2500	2000	2500	2000	2200	1700	600	2100	3500	800	700	1600	1100
10000	2600	2000	2600	2000	2200	1700	700	2100	3500	800	700	1600	1100
11000	2600	2100	2600	2100	2200	1800	700	2100	3500	800	800	1600	1100
12000	2600	2100	2600	2100	2300	1800	700	2100	3500	800	800	1700	1100
13000	2700	2100	2700	2100	2300	1800	700	2100	3500	800	800	1700	1200
14000	2700	2200	2700	2200	2300	1900	700	2200	3600	900	800	1700	1200
15000	2700	2200	2700	2200	2400	1900	800	2200	3600	900	800	1700	1200
16000	2800	2200	2800	2200	2400	1900	800	2200	3600	900	900	1700	1200
17000	2800	2300	2800	2300	2500	2000	800	2200	3600	900	900	1800	1200
18000	2800	2300	2800	2300	2500	2000	800	2200	3600	900	900	1800	1300
19000	2900	2300	2900	2300	2500	2100	800	2200	3700	900	900	1800	1300
20000	2900	2400	2900	2400	2600	2100	900	2300	3700	1000	900	1800	1300
21000	2900	2400	2900	2400	2600	2100	900	2300	3700	1000	1000	1800	1300
22000	3000	2400	3000	2400	2600	2200	900	2300	3700	1000	1000	1800	1300
23000	3000	2500	3000	2500	2700	2200	900	2300	3700	1000	1000	1900	1400
24000	3000	2500	3000	2500	2700	2200	900	2300	3700	1000	1000	1900	1400
25000	3100	2600	3100	2500	2700	2300	900	2400	3800	1100	1000	1900	1400
26000	3100	2600	3100	2600	2800	2300	1000	2400	3800	1100	1100	1900	1400
27000	3100	2600	3100	2600	2800	2300	1000	2400	3800	1100	1100	1900	1400
28000	3200	2700	3200	2700	2800	2400	1000	2400	3800	1100	1100	2000	1400
29000	3200	2700	3200	2700	2900	2400	1000	2400	3800	1100	1100	2000	1500
30000	3300	2700	3300	2700	2900	2400	1000	2500	3900	1200	1100	2000	1500
31000	3300	2800	3300	2800	2900	2500	1100	2500	3900	1200	1100	2000	1500
32000	3300	2800	3300	2800	3000	2500	1100	2500	3900	1200	1200	2000	1500
33000	3400	2800	3400	2800	3000	2500	1100	2500	3900	1200	1200	2100	1500
34000	3400	2900	3400	2900	3000	2600	1100	2500	3900	1200	1200	2100	1600
35000	3400	2900	3400	2900	3100	2600	1100	2600	4000	1200	1200	2100	1600
36000	3500	2900	3500	2900	3100	2600	1200	2600	4000	1300	1200	2100	1600
37000	3500	3000	3500	3000	3200	2700	1200	2600	4000	1300	1300	2100	1600
38000	3500	3000	3500	3000	3200	2700	1200	2600	4000	1300	1300	2200	1600
39000	3600	3000	3600	3000	3200	2800	1200	2600	4000	1300	1300	2200	1700
40000	3600	3100	3600	3100	3300	2800	1200	2600	4100	1300	1300	2200	1700

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH

24 36 30 45

FREE FLIGHT ROCKET 5.0 KT

DELAYED CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	200	400	800	1200	1600	2000	2400	2800		CD 90	CEP	HOB	PEH
5000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	128	70	-0	-0
6000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	154	84	-0	-0
7000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	180	98	-0	-0
8000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	205	112	-0	-0
9000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	231	127	-0	-0
10000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	257	141	-0	-0
11000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	283	155	-0	-0
12000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	308	169	-0	-0
13000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	334	183	-0	-0
14000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	360	197	-0	-0
15000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	385	211	-0	-0
16000	.9/.9	.9/.9	.9/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	411	225	-0	-0
17000	.9/.9	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	437	239	-0	-0
18000	.9/.9	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	463	254	-0	-0
19000	.9/.9	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	488	268	-0	-0
20000	.9/.9	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	514	282	-0	-0
21000	.9/.9	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	540	296	-0	-0
22000	.9/.9	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1024	566	310	-0	-0
23000	.9/.9	.9/.9	.7/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	591	324	-0	-0
24000	.9/.9	.9/.9	.7/.9	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	617	338	-0	-0
25000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	643	352	-0	-0
26000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	668	367	-0	-0
27000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	694	381	-0	-0
28000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	720	395	-0	-0
29000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	746	409	-0	-0
30000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	771	423	-0	-0
31000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	797	437	-0	-0
32000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	823	451	-0	-0
33000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	849	465	-0	-0
34000	.7/.9	.7/.9	.5/.8	.4/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	874	479	-0	-0
35000	.7/.9	.6/.9	.5/.8	.4/.6	.4/.4	.3/.3	.2/.2	.1/.1	1024	900	494	-0	-0
36000	.7/.9	.6/.9	.5/.7	.4/.6	.3/.4	.3/.3	.2/.2	.1/.1	1024	926	508	-0	-0
37000	.6/.9	.6/.9	.5/.7	.4/.6	.3/.4	.3/.3	.2/.2	.1/.1	1024	951	522	-0	-0
38000	.6/.9	.5/.8	.5/.7	.4/.6	.3/.4	.3/.3	.2/.2	.1/.1	1024	977	536	-0	-0
39000	.5/.9	.5/.8	.4/.7	.4/.6	.3/.4	.3/.3	.2/.2	.1/.1	1024	1003	550	-0	-0
40000	.5/.8	.5/.8	.4/.7	.4/.6	.3/.4	.3/.3	.2/.2	.1/.1	1024	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 10.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
5000	3600	2800	2600	2000	2200	1700	800	2600	4500	900	800	2300	1500
6000	3600	2900	2600	2100	2300	1800	800	2700	4600	1000	900	2300	1500
7000	3600	2900	2700	2100	2300	1800	800	2700	4600	1000	900	2400	1500
8000	3700	3000	2700	2200	2300	1800	800	2700	4600	1000	900	2400	1600
9000	3700	3000	2700	2200	2400	1900	800	2700	4600	1000	900	2400	1600
10000	3800	3000	2800	2200	2400	1900	800	2700	4600	1000	900	2400	1600
11000	3800	3100	2800	2300	2500	2000	900	2800	4700	1100	1000	2400	1600
12000	3800	3100	2900	2300	2500	2000	900	2800	4700	1100	1000	2400	1600
13000	3900	3100	2900	2300	2500	2000	900	2800	4700	1100	1000	2500	1700
14000	3900	3200	2900	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
15000	3900	3200	3000	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
16000	4000	3200	3000	2400	2600	2100	1000	2800	4800	1100	1100	2500	1700
17000	4000	3300	3000	2500	2700	2200	1000	2900	4800	1200	1100	2500	1700
18000	4000	3300	3100	2500	2700	2200	1000	2900	4800	1200	1100	2600	1800
19000	4100	3300	3100	2500	2700	2200	1000	2900	4800	1200	1100	2600	1800
20000	4100	3400	3100	2600	2800	2300	1000	2900	4800	1200	1100	2600	1800
21000	4100	3400	3200	2600	2800	2300	1100	2900	4800	1200	1200	2600	1800
22000	4200	3400	3200	2600	2800	2300	1100	3000	4900	1300	1200	2600	1800
23000	4200	3500	3200	2700	2900	2400	1100	3000	4900	1300	1200	2700	1800
24000	4200	3500	3300	2700	2900	2400	1100	3000	4900	1300	1200	2700	1900
25000	4300	3500	3300	2700	2900	2400	1100	3000	4900	1300	1200	2700	1900
26000	4300	3600	3300	2800	3000	2500	1200	3000	4900	1300	1200	2700	1900
27000	4300	3600	3400	2800	3000	2500	1200	3100	5000	1400	1300	2700	1900
28000	4400	3700	3400	2900	3000	2500	1200	3100	5000	1400	1300	2800	1900
29000	4400	3700	3400	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
30000	4500	3700	3500	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
31000	4500	3800	3500	3000	3200	2700	1200	3100	5000	1400	1300	2800	2000
32000	4500	3800	3600	3000	3200	2700	1300	3200	5100	1500	1400	2800	2000
33000	4600	3800	3600	3000	3200	2700	1300	3200	5100	1500	1400	2800	2000
34000	4600	3900	3600	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
35000	4600	3900	3700	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
36000	4700	3900	3700	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
37000	4700	4000	3700	3200	3400	2900	1400	3200	5200	1500	1500	2900	2100
38000	4700	4000	3800	3200	3400	2900	1400	3300	5200	1600	1500	2900	2100
39000	4800	4000	3800	3200	3400	2900	1400	3300	5200	1600	1500	3000	2200
40000	4800	4100	3800	3300	3500	3000	1400	3300	5200	1600	1500	3000	2200

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
32	47	40	59

FREE FLIGHT ROCKET 10.0 KT.

DELAYED CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	400	800	1200	1600	2000	2400	2800	3200					
5000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	128	70	-0	-0
6000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	154	84	-0	-0
7000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	180	98	-0	-0
8000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	205	112	-0	-0
9000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	231	127	-0	-0
10000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	257	141	-0	-0
11000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	283	155	-0	-0
12000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	308	169	-0	-0
13000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	334	183	-0	-0
14000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	360	197	-0	-0
15000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	385	211	-0	-0
16000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	411	225	-0	-0
17000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	437	239	-0	-0
18000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	463	254	-0	-0
19000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	488	268	-0	-0
20000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	514	282	-0	-0
21000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	540	296	-0	-0
22000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	566	310	-0	-0
23000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	591	324	-0	-0
24000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	617	338	-0	-0
25000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	643	352	-0	-0
26000	.9/.9	.8/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	668	367	-0	-0
27000	.9/.9	.8/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1180	694	381	-0	-0
28000	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.1/.1	1180	720	395	-0	-0
29000	.9/.9	.7/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.1/.1	1180	746	409	-0	-0
30000	.9/.9	.7/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.1/.1	1180	771	423	-0	-0
31000	.9/.9	.7/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.1/.1	1180	797	437	-0	-0
32000	.9/.9	.7/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.1/.1	1180	823	451	-0	-0
33000	.8/.9	.7/.9	.5/.7	.4/.5	.4/.4	.3/.3	.2/.2	.1/.1	1180	849	465	-0	-0
34000	.8/.9	.7/.8	.5/.7	.4/.5	.4/.4	.3/.3	.2/.2	.1/.1	1180	874	479	-0	-0
35000	.8/.9	.6/.8	.5/.7	.4/.5	.4/.4	.3/.3	.2/.2	.1/.1	1180	900	494	-0	-0
36000	.8/.9	.6/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.2	.1/.1	1180	926	508	-0	-0
37000	.7/.9	.6/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.2	.1/.1	1180	951	522	-0	-0
38000	.7/.9	.6/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.2	.1/.1	1180	977	536	-0	-0
39000	.7/.9	.6/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.2	.1/.1	1180	1003	550	-0	-0
40000	.7/.9	.5/.8	.5/.7	.4/.5	.3/.4	.2/.3	.2/.2	.1/.1	1180	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 50.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
5000	8700	6600	4500	3900	2800	2400	1300	4700	8100	1700	1600	5300	3400
6000	8700	6600	4600	3900	2800	2400	1300	4700	8200	1700	1600	5300	3400
7000	8800	6600	4600	3900	2900	2500	1400	4700	8200	1700	1600	5400	3400
8000	8800	6700	4600	4000	2900	2500	1400	4700	8200	1800	1600	5400	3500
9000	8800	6700	4700	4000	2900	2500	1400	4800	8200	1800	1700	5400	3500
10000	8900	6800	4700	4000	3000	2600	1400	4800	8200	1800	1700	5400	3500
11000	8900	6800	4800	4100	3000	2600	1400	4800	8300	1800	1700	5400	3500
12000	8900	6800	4800	4100	3000	2600	1500	4800	8300	1800	1700	5500	3500
13000	9000	6900	4800	4100	3100	2700	1500	4800	8300	1900	1700	5500	3500
14000	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1700	5500	3600
15000	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1800	5500	3600
16000	9100	7000	4900	4300	3200	2800	1500	4900	8300	1900	1800	5500	3600
17000	9100	7000	5000	4300	3200	2800	1600	4900	8400	1900	1800	5600	3600
18000	9100	7000	5000	4300	3200	2800	1600	4900	8400	1900	1800	5600	3600
19000	9200	7100	5000	4400	3300	2900	1600	4900	8400	2000	1800	5600	3700
20000	9200	7100	5100	4400	3300	2900	1600	5000	8400	2000	1900	5600	3700
21000	9200	7100	5100	4400	3300	2900	1600	5000	8400	2000	1900	5600	3700
22000	9300	7200	5100	4500	3400	3000	1600	5000	8500	2000	1900	5700	3700
23000	9300	7200	5200	4500	3400	3000	1700	5000	8500	2000	1900	5700	3700
24000	9300	7200	5200	4500	3400	3000	1700	5000	8500	2100	1900	5700	3800
25000	9400	7300	5200	4600	3500	3100	1700	5100	8500	2100	2000	5700	3800
26000	9400	7300	5300	4600	3500	3100	1700	5100	8500	2100	2000	5700	3800
27000	9500	7300	5300	4600	3600	3200	1700	5100	8600	2100	2000	5700	3800
28000	9500	7400	5300	4700	3600	3200	1800	5100	8600	2100	2000	5800	3800
29000	9500	7400	5400	4700	3600	3200	1800	5100	8600	2200	2000	5800	3900
30000	9600	7500	5400	4700	3700	3300	1800	5200	8600	2200	2000	5800	3900
31000	9600	7500	5500	4800	3700	3300	1800	5200	8600	2200	2100	5800	3900
32000	9600	7500	5500	4800	3700	3300	1800	5200	8700	2200	2100	5800	3900
33000	9700	7600	5500	4800	3800	3400	1900	5200	8700	2200	2100	5900	3900
34000	9700	7600	5600	4900	3800	3400	1900	5200	8700	2300	2100	5900	3900
35000	9700	7600	5600	4900	3800	3400	1900	5200	8700	2300	2100	5900	4000
36000	9800	7700	5600	5000	3900	3500	1900	5300	8700	2300	2200	5900	4000
37000	9800	7700	5700	5000	3900	3500	1900	5300	8700	2300	2200	5900	4000
38000	9800	7700	5700	5000	3900	3500	1900	5300	8800	2300	2200	6000	4000
39000	9900	7800	5700	5100	4000	3600	2000	5300	8800	2300	2200	6000	4000
40000	9900	7800	5800	5100	4000	3600	2000	5300	8800	2400	2200	6000	4100

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
53	79	67	98

FREE FLIGHT ROCKET 50.0 KT

DELAYED CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	1200	1600	2000	2400	2800	3200	3600	4000					
5000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	128	70	-0	-0
5500	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	154	84	-0	-0
6000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	180	98	-0	-0
6500	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	205	112	-0	-0
7000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	231	127	-0	-0
7500	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	257	141	-0	-0
8000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	283	155	-0	-0
8500	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	308	169	-0	-0
9000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	334	183	-0	-0
9500	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	360	197	-0	-0
10000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	385	211	-0	-0
10500	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	411	225	-0	-0
11000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	437	239	-0	-0
11500	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	463	254	-0	-0
12000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	488	268	-0	-0
12500	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	514	282	-0	-0
13000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	540	296	-0	-0
13500	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	565	310	-0	-0
14000	.9/.9	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	591	324	-0	-0
14500	.9/.9	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	617	338	-0	-0
15000	.9/.9	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	643	352	-0	-0
15500	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	668	367	-0	-0
16000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	694	381	-0	-0
16500	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	720	395	-0	-0
17000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	746	409	-0	-0
17500	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	771	423	-0	-0
18000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	797	437	-0	-0
18500	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	823	451	-0	-0
19000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	849	465	-0	-0
19500	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	874	479	-0	-0
20000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	900	494	-0	-0
20500	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	926	508	-0	-0
21000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	951	522	-0	-0
21500	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	977	536	-0	-0
22000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	1904	1003	550	-0	-0
22500	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	1904	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 100.0 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
5000	12300	9100	6200	5200	3800	3200	1700	5900	10200	2100	2000	7400	4700
6000	12300	9100	6300	5300	3800	3200	1700	5900	10200	2100	2000	7400	4700
7000	12400	9200	6300	5300	3800	3300	1700	5900	10300	2100	2100	7400	4700
8000	12400	9200	6300	5300	3900	3300	1700	5900	10300	2200	2100	7400	4700
9000	12400	9200	6400	5400	3900	3300	1700	5900	10300	2200	2100	7500	4800
10000	12500	9300	6400	5400	3900	3400	1800	6000	10300	2200	2100	7500	4800
11000	12500	9300	6400	5400	4000	3400	1800	6000	10300	2200	2100	7500	4800
12000	12500	9300	6500	5500	4000	3400	1800	6000	10400	2200	2200	7500	4800
13000	12600	9400	6500	5500	4000	3500	1800	6000	10400	2300	2200	7500	4800
14000	12600	9400	6500	5600	4100	3500	1800	6000	10400	2300	2200	7600	4900
15000	12700	9400	6600	5600	4100	3500	1900	6000	10400	2300	2200	7600	4900
16000	12700	9500	6600	5600	4200	3600	1900	6100	10400	2300	2200	7600	4900
17000	12700	9500	6600	5700	4200	3600	1900	6100	10400	2300	2200	7600	4900
18000	12800	9500	6700	5700	4200	3600	1900	6100	10500	2300	2300	7600	4900
19000	12800	9600	6700	5700	4300	3700	1900	6100	10500	2400	2300	7600	4900
20000	12800	9600	6700	5800	4300	3700	1900	6100	10500	2400	2300	7700	5000
21000	12900	9600	6800	5800	4300	3800	2000	6200	10500	2400	2300	7700	5000
22000	12900	9700	6800	5800	4400	3800	2000	6200	10500	2400	2300	7700	5000
23000	12900	9700	6800	5900	4400	3800	2000	6200	10600	2400	2400	7700	5000
24000	13000	9700	6900	5900	4400	3900	2000	6200	10600	2500	2400	7700	5000
25000	13000	9800	6900	5900	4500	3900	2000	6200	10600	2500	2400	7800	5100
26000	13000	9800	7000	6000	4500	3900	2100	6300	10600	2500	2400	7800	5100
27000	13100	9900	7000	6000	4500	4000	2100	6300	10600	2500	2400	7800	5100
28000	13100	9900	7000	6000	4600	4000	2100	6300	10700	2500	2500	7800	5100
29000	13100	9900	7100	6100	4600	4000	2100	6300	10700	2600	2500	7800	5100
30000	13200	10000	7100	6100	4600	4100	2100	6300	10700	2600	2500	7900	5200
31000	13200	10000	7100	6100	4700	4100	2200	6400	10700	2600	2500	7900	5200
32000	13200	10000	7200	6200	4700	4100	2200	6400	10700	2600	2500	7900	5200
33000	13300	10100	7200	6200	4700	4200	2200	6400	10700	2600	2600	7900	5200
34000	13300	10100	7200	6300	4800	4200	2200	6400	10800	2700	2600	7900	5200
35000	13400	10100	7300	6300	4800	4200	2200	6400	10800	2700	2600	8000	5300
36000	13400	10200	7300	6300	4900	4300	2300	6400	10800	2700	2600	8000	5300
37000	13400	10200	7300	6400	4900	4300	2300	6500	10800	2700	2600	8000	5300
38000	13500	10200	7400	6400	4900	4300	2300	6500	10800	2700	2600	8000	5300
39000	13500	10300	7400	6400	5000	4400	2300	6500	10900	2700	2700	8000	5300
40000	13500	10300	7400	6500	5000	4400	2300	6500	10900	2800	2700	8000	5300

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
65	96	82	120

FREE FLIGHT ROCKET 100.0 KT

DELAYED CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	2600	3400	4200	5000	5800	6600	7400	8200					
5000	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	128	70	-0	-0
6000	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	154	84	-0	-0
7000	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	180	98	-0	-0
8000	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	205	112	-0	-0
9000	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	231	127	-0	-0
10000	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	257	141	-0	-0
11000	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	283	155	-0	-0
12000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	308	169	-0	-0
13000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	334	183	-0	-0
14000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	360	197	-0	-0
15000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	385	211	-0	-0
16000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	411	225	-0	-0
17000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	437	239	-0	-0
18000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	463	254	-0	-0
19000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	488	268	-0	-0
20000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	514	282	-0	-0
21000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	540	296	-0	-0
22000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	566	310	-0	-0
23000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	591	324	-0	-0
24000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	617	338	-0	-0
25000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	643	352	-0	-0
26000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	668	367	-0	-0
27000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	694	381	-0	-0
28000	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	720	395	-0	-0
29000	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	746	409	-0	-0
30000	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	771	423	-0	-0
31000	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	797	437	-0	-0
32000	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	823	451	-0	-0
33000	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	849	465	-0	-0
34000	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	874	479	-0	-0
35000	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	900	494	-0	-0
36000	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	926	508	-0	-0
37000	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	951	522	-0	-0
38000	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	977	536	-0	-0
39000	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	1003	550	-0	-0
40000	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1	2569	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

LIGHT GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
2 KT	2200	1700	2200	1700	1900	1400	500	1500	2500	500	500	1000	700
5 KT	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1500	1000
10 KT	3600	2900	2600	2100	2300	1800	800	2700	4600	1000	900	2300	1500
20 KT	5500	4300	3000	2600	2500	2000	1000	3500	6000	1300	1200	3500	2200

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
2 KT	18	4	23	5
5 KT	24	5	30	6
10 KT	32	7	40	8
20 KT	41	15	51	19

LIGHT GUIDED MISSILE

DELAYED CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
2 KT	800	1000	1200	1400	1600	1800	2000	2200	878	182	100	-0	-0
	.9/.9	.7/.7	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					
5 KT	1200	1400	1600	1800	2000	2200	2400	2600	1024	182	100	-0	-0
	.7/.7	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	.2/.2					
10 KT	600	800	1200	1600	2000	2400	2800	3200	1180	182	100	-0	-0
	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1					
20 KT	800	1200	1600	2000	2400	2800	3200	3600	1345	182	100	-0	-0
	.9/.9	.9/.9	.7/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1					

Range span 10,000 - 50,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

MEDIUM GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
10 KT	4400	3700	3400	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
20 KT	6300	5100	3800	3400	3300	2800	1400	3900	6500	1700	1600	3900	2700
50 KT	9500	7400	5400	4700	3600	3200	1800	5100	8600	2200	2000	5800	3800
100 KT	13100	9900	7000	6100	4600	4000	2100	6300	10700	2600	2500	7800	5100
200 KT	18300	13300	9300	8000	6000	5100	2500	7800	13300	3100	3100	10700	6900

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
10 KT	32	11	40	14
20 KT	41	15	51	19
50 KT	53	19	67	24
100 KT	65	24	82	30
200 KT	80	29	100	36

DELAYED CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
YIELD	RADIUS OF TARGET								PROB.	CD 90	CEP	HOB	PEH
									MIN. RD				
10 KT	600	800	1200	1600	2000	2400	2800	3200	1180	911	500	-0	-0
	.7/.9	.6/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.2	.1/.1					
20 KT	800	1200	1600	2000	2400	2800	3200	3600	1345	911	500	-0	-0
	.7/.9	.6/.8	.5/.6	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1					
50 KT	1600	2000	2400	2800	3200	3600	4000	4400	1904	911	500	-0	-0
	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2					
100 KT	2000	2600	3200	3800	4400	5000	5600	6200	2569	911	500	-0	-0
	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2					
200 KT	3200	4000	4800	5600	6400	7200	8000	8800	3514	911	500	-0	-0
	.8/.9	.7/.7	.6/16	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					

Range span 50,000 - 150,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

HEAVY GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
200 KT	19300	14300	10300	9000	7000	6100	3100	8300	13800	3700	3600	11200	7500
500 KT	29600	20900	14800	12600	9600	8300	3900	10900	18400	4700	4600	16700	10900
1000 KT	41200	28000	19600	16700	12500	10700	4600	13400	22800	5700	5500	22800	14700
2000 KT	45900	30800	21600	18300	13600	11700	4900	14400	24500	6200	5800	25200	16200
5000 KT	64200	41400	29000	24800	18000	15400	5900	17800	30600	7800	7100	34400	22000

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
200 KT	80	58	100	73
500 KT	104	76	130	95
1000 KT	127	93	159	117
2000 KT	135	99	169	124
5000 KT	165	121	207	152

DELAYED CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
200 KT	2000	2800	3600	4400	5200	6000	6800	7600	3514	1822	1000	-0	-0
	.9/.9	.8/.9	.7/.8	.5/.6	.5/.5	.4/.4	.3/.3	.2/.2					
500 KT	4000	5000	6000	7000	8000	9000	10000	11000	5264	1822	1000	-0	-0
	.9/.9	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2					
1000 KT	7000	8000	9000	10000	11000	12000	13000	14000	7105	1822	1000	-0	-0
	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.4/.4	.3/.3	.3/.3					
2000 KT	6000	8000	10000	12000	14000	16000	18000	20000	7819	1822	1000	-0	-0
	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					
5000 KT	10000	12000	14000	16000	18000	20000	220000	24000	10487	1822	1000	-0	-0
	.9/.9	.7/.7	.6/.4	.4/.4	.4/.4	.3/.3	.2/.2	.2/.2					

Range span 50,000 - 300,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

AIRCRAFT DELIVERED WEAPONS

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
5 KT	2700	2200	2700	2200	2400	1900	700	2200	3600	900	800	1700	1200
10 KT	3900	3200	2900	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
20 KT	5800	4600	3300	2900	2800	2300	1200	3700	6200	1500	1300	3600	2400
50 KT	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1800	5500	3600
100 KT	12600	9400	6500	5600	4100	3500	1800	6000	10400	2300	2200	7600	4900
200 KT	17800	12800	8800	7500	5500	4600	2300	7500	13000	2800	2800	10400	6600
500 KT	28100	19400	13300	11100	8100	6800	3000	10100	17500	3900	3800	15900	10100
1000 KT	39700	26500	18100	15200	11000	9200	3800	12600	22000	4900	4700	22000	13900
2000 KT	44400	29300	20100	16800	12100	10200	4100	13600	23700	5400	5000	24400	15400
5000 KT	62700	39900	27500	23100	16500	13900	5100	17000	29700	7000	6300	33600	21200

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
5 KT	24	9	30	11
10 KT	32	11	40	14
20 KT	41	15	51	19
50 KT	53	19	67	24
100 KT	65	24	82	30
200 KT	80	29	100	36
500 KT	104	38	130	47
1000 KT	127	46	159	58
2000 KT	135	99	169	124
5000 KT	165	121	207	152

AIRCRAFT DELIVERED WEAPONS

DELAYED CASUALTIES TO EXPOSED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
YIELD	RADIUS OF TARGET								PROB.	CD 90	CEP	HOB	PEH
									MIN. RD				
5 KT	1000	1200	1400	1600	1800	2000	2200	2400	1024	455	250	-0	-0
	.7/.8	.6/.7	.5/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2					
10 KT	600	800	1200	1600	2000	2400	2800	3200	1180	455	250	-0	-0
	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1					
20 KT	800	1200	1600	2000	2400	2800	3200	3600	1345	455	250	-0	-0
	.9/.9	.8/.9	.7/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1					
50 KT	1200	1600	2000	2400	2800	3200	3600	4000	1904	455	250	-0	-0
	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2					
100 KT	2600	3000	3400	3800	4200	4600	5000	5400	2569	455	250	-0	-0
	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2					
200 KT	3000	3800	4600	5400	6200	7000	7800	8600	3514	455	250	-0	-0
	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2					
500 KT	5000	6000	7000	8000	9000	10000	11000	12000	5264	455	250	-0	-0
	.9/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2					
1000 KT	6000	8000	10000	12000	14000	16000	18000	20000	7105	455	250	-0	-0
	.9/.9	.8/.8	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					
2000 KT	8000	10000	12000	14000	16000	18000	20000	22000	7819	455	250	-0	-0
	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2	.1/.1					
5000 KT	10000	12000	14000	16000	18000	20000	22000	24000	10487	455	250	-0	-0
	.9/.9	.7/.7	.6/.6	.4/.4	.4/.4	.3/.3	.2/.2	.2/.2					

A FALLOUT PREDICTION SHOULD BE MADE

CHAPTER 13

COVERAGE TABLES FOR

SURFACE BURST

PROMPT CASUALTIES TO PROTECTED PERSONNEL

	Page
Free Flight Rocket 5.0 KT	249
10.0 KT	251
50.0 KT	253
100.0 KT	255
Light Guided Missile 2, 5, 10, and 20 KT	257
Medium Guided Missile 10, 20, 50, 100, and 200 KT	259
Heavy Guided Missile 200, 500, 1,000, 2,000, and 5,000 KT	261
Aircraft Delivered Weapons 5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, and 5,000 KT	263

TABLES OF MAXIMUM TARGET RADIUS (.3 Probable Minimum Coverage)

(Distances in Meters)

SURFACE BURST

PROMPT CASUALTIES TO PROTECTED PERSONNEL

Range	Free Flight Rocket			
	5	10	50	100
5000	1200	1400	2000	2000
6000	1200	1400	2000	2000
7000	1200	1400	2000	2000
8000	1200	1400	2000	2000
9000	1200	1400	2000	2000
10000	1200	1400	2000	2000
12000	1200	1400	2000	2000
14000	1200	1400	2000	2000
16000	1200	1400	2000	2000
18000	1200	1400	2000	2000
20000	1200	1400	2000	2000
22000	1200	1400	2000	2000
24000	1200	1400	2000	2000
26000	1000	1400	2000	2000
28000	1000	1400	2000	2000
30000	800	1400	2000	2000
3200		1200	2000	2000
34000		1200	2000	2000
36000		1000	2000	2000
38000			2000	2000
40000			2000	2000

Light Guided Missile			
2	5	10	20
1000	1200	1400	1600

Medium Guided Missile				
10	20	50	100	200
1200	1600	1800	2000	2400

Heavy Guided Missile				
200	500	1000	2000	5000
	3000	4000	4500	6000

Aircraft Delivered Weapons									
5	10	20	50	100	200	500	1000	2000	5000
1200	1400	1600	1800	2000	2400	3200	4400	4500	6000

NOTE: Blank spaces indicate either the target is out of range or a probable minimum coverage of .3 cannot be obtained.

FREE FLIGHT ROCKET 5.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	2400	1900	2400	1800	2000	1600	600	2000	3400	700	700	1500	1000
6000	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1500	1000
7000	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1600	1000
8000	2500	2000	2500	2000	2100	1700	600	2000	3400	700	700	1600	1100
9000	2500	2000	2500	2000	2200	1700	600	2100	3500	800	700	1600	1100
10000	2600	2000	2600	2000	2200	1700	700	2100	3500	800	700	1600	1100
11000	2600	2100	2600	2100	2200	1800	700	2100	3500	800	800	1600	1100
12000	2600	2100	2600	2100	2300	1800	700	2100	3500	800	800	1700	1100
13000	2700	2100	2700	2100	2300	1800	700	2100	3500	800	800	1700	1200
14000	2700	2200	2700	2200	2300	1900	700	2200	3600	900	800	1700	1200
15000	2700	2200	2700	2200	2400	1900	800	2200	3600	900	800	1700	1200
16000	2800	2200	2800	2200	2400	1900	800	2200	3600	900	900	1700	1200
17000	2800	2300	2800	2300	2500	2000	800	2200	3600	900	900	1800	1200
18000	2800	2300	2800	2300	2500	2000	800	2200	3600	900	900	1800	1300
19000	2900	2300	2900	2300	2500	2100	800	2200	3700	900	900	1800	1300
20000	2900	2400	2900	2400	2600	2100	900	2300	3700	1000	900	1800	1300
21000	2900	2400	2900	2400	2600	2100	900	2300	3700	1000	1000	1800	1300
22000	3000	2400	3000	2400	2600	2200	900	2300	3700	1000	1000	1800	1300
23000	3000	2500	3000	2500	2700	2200	900	2300	3700	1000	1000	1900	1400
24000	3000	2500	3000	2500	2700	2200	900	2300	3700	1000	1000	1900	1400
25000	3100	2600	3100	2500	2700	2300	900	2400	3800	1100	1000	1900	1400
26000	3100	2600	3100	2600	2800	2300	1000	2400	3800	1100	1100	1900	1400
27000	3100	2600	3100	2600	2800	2300	1000	2400	3800	1100	1100	1900	1400
28000	3200	2700	3200	2700	2800	2400	1000	2400	3800	1100	1100	2000	1400
29000	3200	2700	3200	2700	2900	2400	1000	2400	3800	1100	1100	2000	1500
30000	3300	2700	3300	2700	2900	2400	1000	2500	3900	1200	1100	2000	1500
31000	3300	2800	3300	2800	2900	2500	1100	2500	3900	1200	1100	2000	1500
32000	3300	2800	3300	2800	3000	2500	1100	2500	3900	1200	1200	2000	1500
33000	3400	2800	3400	2800	3000	2500	1100	2500	3900	1200	1200	2100	1500
34000	3400	2900	3400	2900	3000	2600	1100	2500	3900	1200	1200	2100	1600
35000	3400	2900	3400	2900	3100	2600	1100	2600	4000	1200	1200	2100	1600
36000	3500	2900	3500	2900	3100	2600	1200	2600	4000	1300	1200	2100	1600
37000	3500	3000	3500	3000	3200	2700	1200	2600	4000	1300	1300	2100	1600
38000	3500	3000	3500	3000	3200	2700	1200	2600	4000	1300	1300	2200	1600
39000	3600	3000	3600	3000	3200	2800	1200	2600	4000	1300	1300	2200	1700
40000	3600	3100	3600	3100	3300	2800	1200	2600	4100	1300	1300	2200	1700

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
24	36	30	45

FREE FLIGHT ROCKET 5.0 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
RANGE									PROB. MIN. RD				
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	200	400	600	800	1000	1200	1400	1600					
5000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	605	128	70	-0	-0
6000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	605	154	84	-0	-0
7000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	605	180	98	-0	-0
8000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	605	205	112	-0	-0
9000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	605	231	127	-0	-0
10000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	605	257	141	-0	-0
11000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	605	283	155	-0	-0
12000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	605	308	169	-0	-0
13000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	605	334	183	-0	-0
14000	.9/.9	.8/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	605	360	197	-0	-0
15000	.9/.9	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	605	385	211	-0	-0
16000	.9/.9	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	605	411	225	-0	-0
17000	.8/.9	.7/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.1/.1	605	437	239	-0	-0
18000	.8/.9	.6/.8	.5/.7	.4/.5	.4/.4	.3/.3	.2/.2	.1/.1	605	463	254	-0	-0
19000	.7/.9	.6/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.2	.1/.1	605	488	268	-0	-0
20000	.7/.9	.6/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.2	.1/.1	605	514	282	-0	-0
21000	.6/.9	.5/.8	.5/.7	.4/.5	.3/.4	.3/.3	.2/.2	.1/.1	605	540	296	-0	-0
22000	.6/.9	.5/.8	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	.1/.1	605	566	310	-0	-0
23000	.5/.8	.5/.8	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	.1/.1	605	591	324	-0	-0
24000	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.2	.1/.1	605	617	338	-0	-0
25000	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.2/.3	.2/.2	.1/.1	605	643	352	-0	-0
26000	.3/.8	.3/.7	.3/.6	.3/.5	.3/.4	.2/.3	.2/.2	.1/.1	605	668	367	-0	-0
27000	.3/.8	.3/.7	.3/.6	.3/.5	.3/.4	.2/.3	.2/.2	.1/.1	605	694	381	-0	-0
28000	.2/.7	.3/.7	.3/.6	.3/.5	.3/.4	.2/.3	.2/.2	.1/.1	605	720	395	-0	-0
29000	.2/.7	.3/.7	.3/.6	.3/.4	.3/.4	.2/.3	.2/.2	.1/.1	605	746	409	-0	-0
30000	.1/.7	.2/.6	.3/.5	.3/.4	.2/.3	.2/.3	.2/.2	.1/.1	605	771	423	-0	-0
31000	.1/.7	.2/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	.1/.1	605	797	437	-0	-0
32000	.1/.7	.2/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	.1/.1	605	823	451	-0	-0
33000	.1/.6	.1/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	.1/.1	605	849	465	-0	-0
34000	.0/.6	.1/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	.1/.1	605	874	479	-0	-0
35000	.0/.6	.1/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	.1/.1	605	900	494	-0	-0
36000	.0/.6	.1/.5	.1/.5	.2/.4	.2/.3	.2/.2	.2/.2	.1/.1	605	926	508	-0	-0
37000	.0/.5	.1/.5	.1/.5	.2/.4	.2/.3	.2/.2	.2/.2	.1/.1	605	951	522	-0	-0
38000	.0/.5	.0/.5	.1/.4	.2/.4	.2/.3	.2/.2	.2/.2	.1/.1	605	977	536	-0	-0
39000	.0/.5	.0/.5	.1/.4	.1/.4	.2/.3	.2/.2	.2/.2	.1/.1	605	1003	550	-0	-0
40000	.0/.5	.0/.5	.1/.4	.1/.4	.2/.3	.2/.2	.2/.2	.1/.1	605	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 10.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	3600	2800	2600	2000	2200	1700	800	2600	4500	900	800	2300	1500
6000	3600	2900	2600	2100	2300	1800	800	2700	4600	1000	900	2300	1500
7000	3600	2900	2700	2100	2300	1800	800	2700	4600	1000	900	2400	1500
8000	3700	3000	2700	2200	2300	1800	800	2700	4600	1000	900	2400	1600
9000	3700	3000	2700	2200	2400	1900	800	2700	4600	1000	900	2400	1600
10000	3800	3000	2800	2200	2400	1900	800	2700	4600	1000	900	2400	1600
11000	3800	3100	2800	2300	2500	2000	900	2800	4700	1100	1000	2400	1600
12000	3800	3100	2900	2300	2500	2000	900	2800	4700	1100	1000	2400	1600
13000	3900	3100	2900	2300	2500	2000	900	2800	4700	1100	1000	2500	1700
14000	3900	3200	2900	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
15000	3900	3200	3000	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
16000	4000	3200	3000	2400	2600	2100	1000	2800	4800	1100	1100	2500	1700
17000	4000	3300	3000	2500	2700	2200	1000	2900	4800	1200	1100	2500	1700
18000	4000	3300	3100	2500	2700	2200	1000	2900	4800	1200	1100	2600	1800
19000	4100	3300	3100	2500	2700	2200	1000	2900	4800	1200	1100	2600	1800
20000	4100	3400	3100	2600	2800	2300	1000	2900	4800	1200	1100	2600	1800
21000	4100	3400	3200	2600	2800	2300	1100	2900	4800	1200	1200	2600	1800
22000	4200	3400	3200	2600	2800	2300	1100	3000	4900	1300	1200	2600	1800
23000	4200	3500	3200	2700	2900	2400	1100	3000	4900	1300	1200	2700	1800
24000	4200	3500	3300	2700	2900	2400	1100	3000	4900	1300	1200	2700	1900
25000	4300	3500	3300	2700	2900	2400	1100	3000	4900	1300	1200	2700	1900
26000	4300	3600	3300	2800	3000	2500	1200	3000	4900	1300	1200	2700	1900
27000	4300	3600	3400	2800	3000	2500	1200	3100	5000	1400	1300	2700	1900
28000	4400	3700	3400	2900	3000	2500	1200	3100	5000	1400	1300	2800	1900
29000	4400	3700	3400	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
30000	4500	3700	3500	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
31000	4500	3800	3500	3000	3200	2700	1200	3100	5000	1400	1300	2800	2000
32000	4500	3800	3600	3000	3200	2700	1300	3200	5100	1500	1400	2800	2000
33000	4600	3800	3600	3000	3200	2700	1300	3200	5100	1500	1400	2800	2000
34000	4600	3900	3600	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
35000	4600	3900	3700	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
36000	4700	3900	3700	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
37000	4700	4000	3700	3200	3400	2900	1400	3200	5200	1500	1500	2900	2100
38000	4700	4000	3800	3200	3400	2900	1400	3300	5200	1600	1500	2900	2100
39000	4800	4000	3800	3200	3400	2900	1400	3300	5200	1600	1500	3000	2200
40000	4800	4100	3800	3300	3500	3000	1400	3300	5200	1600	1500	3000	2200

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
32	47	40	59

FREE FLIGHT ROCKET
10.0 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL
SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	400	600	800	1000	1200	1400	1600	1800					
5000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	728	128	70	-0	-0
6000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	728	154	84	-0	-0
7000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	728	180	98	-0	-0
8000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	728	205	112	-0	-0
9000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	728	231	127	-0	-0
10000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	728	257	141	-0	-0
11000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	728	283	155	-0	-0
12000	.9/.9	.8/.9	.7/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	728	308	169	-0	-0
13000	.9/.9	.8/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	728	334	183	-0	-0
14000	.9/.9	.8/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	728	360	197	-0	-0
15000	.9/.9	.7/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	728	385	211	-0	-0
16000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	728	411	225	-0	-0
17000	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	728	437	239	-0	-0
18000	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	728	463	254	-0	-0
19000	.8/.9	.6/.8	.5/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	728	488	268	-0	-0
20000	.7/.9	.6/.8	.5/.7	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	728	514	282	-0	-0
21000	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	728	540	296	-0	-0
22000	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	728	566	310	-0	-0
23000	.6/.9	.5/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	728	591	324	-0	-0
24000	.6/.8	.5/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	728	617	338	-0	-0
25000	.6/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	728	643	352	-0	-0
26000	.5/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	728	668	367	-0	-0
27000	.5/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	728	694	381	-0	-0
28000	.5/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	.2/.2	728	720	395	-0	-0
29000	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.2	.2/.2	728	746	409	-0	-0
30000	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.2	.2/.2	728	771	423	-0	-0
31000	.4/.7	.4/.7	.3/.6	.3/.5	.3/.4	.2/.3	.2/.2	.2/.2	728	797	437	-0	-0
32000	.3/.7	.3/.6	.3/.6	.3/.5	.3/.4	.2/.3	.2/.2	.2/.2	728	823	451	-0	-0
33000	.3/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	.2/.2	728	849	465	-0	-0
34000	.3/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	.2/.2	728	874	479	-0	-0
35000	.2/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	.2/.2	728	900	494	-0	-0
36000	.2/.7	.2/.6	.3/.5	.3/.4	.2/.3	.2/.3	.2/.2	.2/.2	728	926	508	-0	-0
37000	.2/.7	.2/.6	.2/.5	.3/.4	.2/.3	.2/.3	.2/.2	.2/.2	728	951	522	-0	-0
38000	.2/.6	.2/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	.2/.2	728	977	536	-0	-0
39000	.1/.6	.2/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	.2/.2	728	1003	550	-0	-0
40000	.1/.6	.2/.5	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	.2/.2	728	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 50.0 KT

SAFETY DISTANCE TABLE (Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	8700	6600	4500	3900	2800	2400	1300	4700	8100	1700	1600	5300	3400
6000	8700	6600	4600	3900	2800	2400	1300	4700	8200	1700	1600	5300	3400
7000	8800	6600	4600	3900	2900	2500	1400	4700	8200	1700	1600	5400	3400
8000	8800	6700	4600	4000	2900	2500	1400	4700	8200	1800	1600	5400	3500
9000	8800	6700	4700	4000	2900	2500	1400	4800	8200	1800	1700	5400	3500
10000	8900	6800	4700	4000	3000	2600	1400	4800	8200	1800	1700	5400	3500
11000	8900	6800	4800	4100	3000	2600	1400	4800	8300	1800	1700	5400	3500
12000	8900	6800	4800	4100	3000	2600	1500	4800	8300	1800	1700	5500	3500
13000	9000	6900	4800	4100	3100	2700	1500	4800	8300	1900	1700	5500	3500
14000	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1700	5500	3600
15000	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1800	5500	3600
16000	9100	7000	4900	4300	3200	2800	1500	4900	8300	1900	1800	5500	3600
17000	9100	7000	5000	4300	3200	2800	1600	4900	8400	1900	1800	5600	3600
18000	9100	7000	5000	4300	3200	2800	1600	4900	8400	1900	1800	5600	3600
19000	9200	7100	5000	4400	3300	2900	1600	4900	8400	2000	1800	5600	3700
20000	9200	7100	5100	4400	3300	2900	1600	5000	8400	2000	1900	5600	3700
21000	9200	7100	5100	4400	3300	2900	1600	5000	8400	2000	1900	5600	3700
22000	9300	7200	5100	4500	3400	3000	1600	5000	8500	2000	1900	5700	3700
23000	9300	7200	5200	4500	3400	3000	1700	5000	8500	2000	1900	5700	3700
24000	9300	7200	5200	4500	3400	3000	1700	5000	8500	2100	1900	5700	3800
25000	9400	7300	5200	4600	3500	3100	1700	5100	8500	2100	2000	5700	3800
26000	9400	7300	5300	4600	3500	3100	1700	5100	8500	2100	2000	5700	3800
27000	9500	7300	5300	4600	3600	3200	1700	5100	8600	2100	2000	5700	3800
28000	9500	7400	5300	4700	3600	3200	1800	5100	8600	2100	2000	5800	3800
29000	9500	7400	5400	4700	3600	3200	1800	5100	8600	2200	2000	5800	3900
30000	9600	7500	5400	4700	3700	3300	1800	5200	8600	2200	2000	5800	3900
31000	9600	7500	5500	4800	3700	3300	1800	5200	8600	2200	2100	5800	3900
32000	9600	7500	5500	4800	3700	3300	1800	5200	8700	2200	2100	5800	3900
33000	9700	7600	5500	4800	3800	3400	1900	5200	8700	2200	2100	5900	3900
34000	9700	7600	5600	4900	3800	3400	1900	5200	8700	2300	2100	5900	3900
35000	9700	7600	5600	4900	3800	3400	1900	5200	8700	2300	2100	5900	4000
36000	9800	7700	5600	5000	3900	3500	1900	5300	8700	2300	2200	5900	4000
37000	9800	7700	5700	5000	3900	3500	1900	5300	8700	2300	2200	5900	4000
38000	9800	7700	5700	5000	3900	3500	1900	5300	8800	2300	2200	6000	4000
39000	9900	7800	5700	5100	4000	3600	2000	5300	8800	2300	2200	6000	4000
40000	9900	7800	5800	5100	4000	3600	2000	5300	8800	2400	2200	6000	4100

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
53	79	67	98

FREE FLIGHT ROCKET 50.0 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
200	400	800	1200	1600	2000	2400	2800						
5000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	128	70	-0	-0
6000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	154	84	-0	-0
7000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	180	98	-0	-0
8000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	205	112	-0	-0
9000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	231	127	-0	-0
10000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	257	141	-0	-0
11000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	283	155	-0	-0
12000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	308	169	-0	-0
13000	.9/.9	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	334	183	-0	-0
14000	.9/.9	.9/.9	.9/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	360	197	-0	-0
15000	.9/.9	.9/.9	.9/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	385	211	-0	-0
16000	.9/.9	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	411	225	-0	-0
17000	.9/.9	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	437	239	-0	-0
18000	.9/.9	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	463	254	-0	-0
19000	.9/.9	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	488	268	-0	-0
20000	.9/.9	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.1/.1	1005	514	282	-0	-0
21000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	540	296	-0	-0
22000	.9/.9	.9/.9	.7/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	566	310	-0	-0
23000	.9/.9	.9/.9	.7/.9	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	591	324	-0	-0
24000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	617	338	-0	-0
25000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	643	352	-0	-0
26000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	668	367	-0	-0
27000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	694	381	-0	-0
28000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	720	395	-0	-0
29000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	746	409	-0	-0
30000	.8/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	771	423	-0	-0
31000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	797	437	-0	-0
32000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	823	451	-0	-0
33000	.7/.9	.7/.9	.5/.8	.4/.6	.4/.4	.3/.3	.2/.2	.1/.1	1005	849	465	-0	-0
34000	.7/.9	.6/.9	.5/.8	.4/.6	.3/.4	.3/.3	.2/.2	.1/.1	1005	874	479	-0	-0
35000	.7/.9	.6/.9	.5/.7	.4/.6	.3/.4	.3/.3	.2/.2	.1/.1	1005	900	494	-0	-0
36000	.6/.9	.6/.9	.5/.7	.4/.6	.3/.4	.3/.3	.2/.2	.1/.1	1005	926	508	-0	-0
37000	.6/.9	.5/.8	.5/.7	.4/.6	.3/.4	.3/.3	.2/.2	.1/.1	1005	951	522	-0	-0
38000	.5/.9	.5/.8	.4/.7	.4/.6	.3/.4	.3/.3	.2/.2	.1/.1	1005	977	536	-0	-0
39000	.5/.9	.5/.8	.4/.7	.4/.5	.3/.4	.3/.3	.2/.2	.1/.1	1005	1003	550	-0	-0
40000	.5/.8	.4/.8	.4/.7	.4/.5	.3/.4	.3/.3	.2/.2	.1/.1	1005	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 100.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

TROOP SAFETY							PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
RANGE	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	12300	9100	6200	5200	3800	3200	1700	5900	10200	2100	2000	7400	4700
6000	12300	9100	6300	5300	3800	3200	1700	5900	10200	2100	2000	7400	4700
7000	12400	9200	6300	5300	3800	3300	1700	5900	10300	2100	2100	7400	4700
8000	12400	9200	6300	5300	3900	3300	1700	5900	10300	2200	2100	7400	4700
9000	12400	9200	6400	5400	3900	3300	1700	5900	10300	2200	2100	7500	4800
10000	12500	9300	6400	5400	3900	3400	1800	6000	10300	2200	2100	7500	4800
11000	12500	9300	6400	5400	4000	3400	1800	6000	10300	2200	2100	7500	4800
12000	12500	9300	6500	5500	4000	3400	1800	6000	10400	2200	2200	7500	4800
13000	12600	9400	6500	5500	4000	3500	1800	6000	10400	2300	2200	7500	4800
14000	12600	9400	6500	5600	4100	3500	1800	6000	10400	2300	2200	7600	4900
15000	12700	9400	6600	5600	4100	3500	1900	6000	10400	2300	2200	7600	4900
16000	12700	9500	6600	5600	4200	3600	1900	6100	10400	2300	2200	7600	4900
17000	12700	9500	6600	5700	4200	3600	1900	6100	10400	2300	2200	7600	4900
18000	12800	9500	6700	5700	4200	3600	1900	6100	10500	2300	2300	7600	4900
19000	12800	9600	6700	5700	4300	3700	1900	6100	10500	2400	2300	7600	4900
20000	12800	9600	6700	5800	4300	3700	1900	6100	10500	2400	2300	7700	5000
21000	12900	9600	6800	5800	4300	3800	2000	6200	10500	2400	2300	7700	5000
22000	12900	9700	6800	5800	4400	3800	2000	6200	10500	2400	2300	7700	5000
23000	12900	9700	6800	5900	4400	3800	2000	6200	10600	2400	2400	7700	5000
24000	13000	9700	6900	5900	4400	3900	2000	6200	10600	2500	2400	7700	5000
25000	13000	9800	6900	5900	4500	3900	2000	6200	10600	2500	2400	7800	5100
26000	13000	9800	7000	6000	4500	3900	2100	6300	10600	2500	2400	7800	5100
27000	13100	9900	7000	6000	4500	4000	2100	6300	10600	2500	2400	7800	5100
28000	13100	9900	7000	6000	4600	4000	2100	6300	10700	2500	2500	7800	5100
29000	13100	9900	7100	6100	4600	4000	2100	6300	10700	2600	2500	7800	5100
30000	13200	10000	7100	6100	4600	4100	2100	6300	10700	2600	2500	7900	5200
31000	13200	10000	7100	6100	4700	4100	2200	6400	10700	2600	2500	7900	5200
32000	13200	10000	7200	6200	4700	4100	2200	6400	10700	2600	2500	7900	5200
33000	13300	10100	7200	6200	4700	4200	2200	6400	10700	2600	2600	7900	5200
34000	13300	10100	7200	6300	4800	4200	2200	6400	10800	2700	2600	7900	5200
35000	13400	10100	7300	6300	4800	4200	2200	6400	10800	2700	2600	8000	5300
36000	13400	10200	7300	6300	4900	4300	2300	6400	10800	2700	2600	8000	5300
37000	13400	10200	7300	6400	4900	4300	2300	6500	10800	2700	2600	8000	5300
38000	13500	10200	7400	6400	4900	4300	2300	6500	10800	2700	2600	8000	5300
39000	13500	10300	7400	6400	5000	4400	2300	6500	10900	2700	2700	8000	5300
40000	13500	10300	7400	6500	5000	4400	2300	6500	10900	2800	2700	8000	5300

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
65	96	82	120

FREE FLIGHT ROCKET
100.0 KT

PROMPT CASUALTIES TO PROTECTED PERSONNEL
SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

RANGE	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	600	800	1200	1600	2000	2400	2800	3200		CD 90	CEP	HOB	PEH
5000	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	128	70	-0	-0
6000	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	154	84	-0	-0
7000	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	180	98	-0	-0
8000	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	205	112	-0	-0
9000	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	231	127	-0	-0
10000	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	257	141	-0	-0
11000	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	283	155	-0	-0
12000	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	308	169	-0	-0
13000	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	334	183	-0	-0
14000	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	360	197	-0	-0
15000	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	385	211	-0	-0
16000	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	411	225	-0	-0
17000	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	437	239	-0	-0
18000	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	463	254	-0	-0
19000	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	488	268	-0	-0
20000	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	514	282	-0	-0
21000	.9/.9	.8/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	540	296	-0	-0
22000	.9/.9	.8/.9	.6/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	566	310	-0	-0
23000	.9/.9	.8/.9	.6/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	591	324	-0	-0
24000	.9/.9	.8/.9	.6/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	617	338	-0	-0
25000	.9/.9	.8/.9	.6/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	643	352	-0	-0
26000	.8/.9	.8/.9	.6/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	668	367	-0	-0
27000	.8/.9	.7/.9	.6/.7	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	694	381	-0	-0
28000	.8/.9	.7/.9	.5/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	720	395	-0	-0
29000	.8/.9	.7/.9	.6/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	746	409	-0	-0
30000	.8/.9	.7/.9	.5/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	771	423	-0	-0
31000	.8/.9	.7/.8	.5/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	797	437	-0	-0
32000	.7/.9	.7/.8	.5/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	823	451	-0	-0
33000	.7/.9	.6/.8	.5/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	849	465	-0	-0
34000	.7/.9	.6/.8	.5/.7	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	874	479	-0	-0
35000	.7/.9	.5/.8	.5/.6	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	900	494	-0	-0
36000	.6/.9	.6/.8	.5/.6	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	926	508	-0	-0
37000	.6/.9	.6/.8	.5/.6	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	951	522	-0	-0
38000	.6/.8	.5/.8	.5/.6	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	977	536	-0	-0
39000	.6/.8	.5/.8	.4/.6	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	1003	550	-0	-0
40000	.5/.8	.5/.8	.4/.6	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1	1128	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

LIGHT GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2 KT	2200	1700	2200	1700	1900	1400	500	1500	2500	500	500	1000	700
5 KT	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1500	1000
10 KT	3600	2900	2600	2100	2300	1800	800	2700	4600	1000	900	2300	1500
20 KT	5500	4300	3000	2600	2500	2000	1000	3500	6000	1300	1200	3500	2200

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
2 KT	18	4	23	5
5 KT	24	5	30	6
10 KT	32	7	40	8
20 KT	41	15	51	19

LIGHT GUIDED MISSILE

PROMPT CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									PROB. MIN. RD	ACCURACY DATA			
YIELD	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
2 KT	300	500	600	700	800	900	1000	1200	493	182	100	-0	-0
	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2					
5 KT	200	400	600	800	1000	1200	1400	1600	605	182	100	-0	-0
	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1					
10 KT	600	800	1000	1200	1400	1600	1800	2000	728	182	100	-0	-0
	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					
20 KT	800	1000	1200	1400	1600	1800	2000	2200	857	182	100	-0	-0
	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					

Range span 10,000 - 50,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

MEDIUM GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
10 KT	4400	3700	3400	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
20 KT	6300	5100	3800	3400	3300	2800	1400	3900	6500	1700	1600	3900	2700
50 KT	9500	7400	5400	4700	3600	3200	1800	5100	8600	2200	2000	5800	3800
100 KT	13100	9900	7000	6100	4600	4000	2100	6300	10700	2600	2500	7800	5100
200 KT	18300	13300	9300	8000	6000	5100	2500	7800	13300	3100	3100	10700	6900

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
10 KT	32	11	40	14
20 KT	41	15	51	19
50 KT	53	19	67	24
100 KT	65	24	82	30
200 KT	80	29	100	36

MEDIUM GUIDED MISSILE

PROMPT CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
YIELD	RADIUS OF TARGET								PROB.	CD 90	CEP	HOB	PEH
									MIN. RD				
10 KT	400	600	800	1000	1200	1400	1600	1800	728	911	500	-0	-0
	.2/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	.2/.2					
20 KT	200	600	1000	1200	1400	1600	1800	2000	857	911	500	-0	-0
	.2/.8	.4/.7	.3/.5	.3/.5	.3/.4	.3/.3	.2/.2	.2/.2					
50 KT	400	800	1200	1600	1800	2200	2400	2600	1005	911	500	-0	-0
	.6/.9	.5/.7	.4/.6	.3/.4	.3/.3	.2/.2	.2/.2	.2/.2					
100 KT	400	800	1200	1600	2000	2400	2800	3200	1128	911	500	-0	-0
	.7/.9	.6/.8	.5/.6	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1					
200 KT	800	1200	1600	2000	2400	2800	3200	3600	1286	911	500	-0	-0
	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					

Range span 50,000 - 150,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

HEAVY GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
200 KT	19300	14300	10300	9000	7000	6100	3100	8300	13800	3700	3600	11200	7500
500 KT	29600	20900	14800	12600	9600	8300	3900	10900	18400	4700	4600	16700	10900
1000 KT	41200	28000	19600	16700	12500	10700	4600	13400	22800	5700	5500	22800	14700
2000 KT	45900	30800	21600	18300	13600	11700	4900	14400	24500	6200	5800	25200	16200
5000 KT	64200	41400	29000	24800	18000	15400	5900	17800	30600	7800	7100	34400	22000

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
200 KT	80	58	100	73
500 KT	104	76	130	95
1000 KT	127	93	159	117
2000 KT	135	99	169	124
5000 KT	165	121	207	152

HEAVY GUIDED MISSILE

PROMPT CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
YIELD		RADIUS OF TARGET							PROB. -	CD 90	CEP	HOB	PEH
									MIN. RD				
200 KT	1000	1800	2600	3400	4200	5000	6000	7000	1286	1822	1000	-0	-0
	.2/.6	.2/.4	.2/.3	.1/.1	.1/.1	.1/.1	.0/.0	.0/.0					
500 KT	1000	2000	3000	4000	5000	6000	7000	8000	1746	1822	1000	-0	-0
	.4/.8	.4/.6	.3/.4	.2/.2	.1/.1	.1/.1	.1/.1	.0/.0					
1000 KT	1000	2000	3000	4000	5000	6000	8000	10000	2200	1822	1000	-0	-0
	.7/.9	.5/.7	.4/.5	.3/.3	.2/.2	.1/.1	.1/.1	.0/.0					
2000 KT	1000	2000	3000	4000	5000	6000	8000	12000	2370	1822	1000	-0	-0
	.7/.9	.6/.8	.5/.6	.4/.4	.2/.2	.2/.2	.1/.1	.0/.0					
5000 KT	1000	2000	4000	6000	8000	10000	12000	14000	2983	1822	1000	-0	-0
	.9/.9	.8/.9	.5/.6	.3/.3	.1/.1	.1/.1	.1/.1	.0/.0					

Range span 50,000 - 300,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

AIRCRAFT DELIVERED WEAPONS

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5 KT	2700	2200	2700	2200	2400	1900	700	2200	3600	900	800	1700	1200
10 KT	3900	3200	2900	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
20 KT	5800	4600	3300	2900	2800	2300	1200	3700	6200	1500	1300	3600	2400
50 KT	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1800	5500	3600
100 KT	12600	9400	6500	5600	4100	3500	1800	6000	10400	2300	2200	7600	4900
200 KT	17800	12800	8800	7500	5500	4600	2300	7500	13000	2800	2800	10400	6600
500 KT	28100	19400	13300	11100	8100	6800	3000	10100	17500	3900	3800	15900	10100
1000 KT	39700	26500	18100	15200	11000	9200	3800	12600	22000	4900	4700	22000	13900
2000 KT	44400	29300	20100	16800	12100	10200	4100	13600	23700	5400	5000	24400	15400
5000 KT	62700	39900	27500	23100	16500	13900	5100	17000	29700	7000	6300	33600	21200

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
5 KT	24	9	30	11
10 KT	32	11	40	14
20 KT	41	15	51	19
50 KT	53	19	67	24
100 KT	65	24	82	30
200 KT	80	29	100	36
500 KT	104	38	130	47
1000 KT	127	46	159	58
2000 KT	135	99	169	124
5000 KT	165	121	207	152

AIRCRAFT DELIVERED WEAPONS

PROMPT CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
5 KT	200	400	600	800	1000	1200	1400	1600	605	455	250	-0	-0
	.8/.9	.7/.9	.5/.7	.4/.5	.4/.4	.3/.3	.2/.2	.1/.1					
10 KT	400	600	800	1000	1200	1400	1600	1800	728	455	250	-0	-0
	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2					
20 KT	400	600	800	1000	1200	1400	1600	1800	857	455	250	-0	-0
	.9/.9	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2					
50 KT	600	800	1000	1200	1400	1600	1800	2000	1005	455	250	-0	-0
	.9/.9	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3					
100 KT	800	1200	1600	2000	2400	2800	3200	3600	1128	455	250	-0	-0
	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1	.1/.1					
200 KT	600	800	1200	1600	2000	2400	2800	3200	1286	455	250	-0	-0
	.9/.9	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2					
500 KT	1200	1600	2000	2400	2800	3200	3600	4000	1746	455	250	-0	-0
	.9/.9	.8/.9	.7/.7	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2					
1000 KT	2000	2400	2800	3200	3600	4000	4400	4800	2200	455	250	-0	-0
	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2					
2000 KT	2500	3000	3500	4000	4500	5000	5500	6000	2370	455	250	-0	-0
	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					
5000 KT	3000	4000	5000	6000	7000	8000	9000	10000	2983	455	250	-0	-0
	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	.1/.1	.1/.1					

A FALLOUT PREDICTION SHOULD BE MADE

CHAPTER 14

COVERAGE TABLES FOR

SURFACE BURST

DELAYED CASUALTIES TO PROTECTED PERSONNEL

	Page
Free Flight Rocket 5.0 KT.....	267
10.0 KT.....	269
50.0 KT.....	271
100.0 KT.....	273
Light Guided Missile 2, 5, 10, and 20 KT	275
Medium Guided Missile 10, 20, 50, 100, and 200 KT	277
Heavy Guided Missile 200, 500, 1,000, 2,000, and 5,000 KT	279
Aircraft Delivered Weapons 5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, and 5,000 KT	281

TABLES OF MAXIMUM TARGET RADIUS (.3 Probable Minimum Coverage)

(Distances in Meters)

SURFACE BURST

DELAYED CASUALTIES TO PROTECTED PERSONNEL

Range	Free Flight Rocket			
	5	10	50	100
5000	1600	1800	2400	2800
6000	1600	1800	2400	2800
7000	1600	1800	2400	2800
8000	1600	1800	2400	2800
9000	1600	1800	2400	2800
10000	1600	1800	2400	2800
12000	1600	1800	2400	2800
14000	1600	1800	2400	2800
16000	1600	1800	2400	2800
18000	1600	1800	2400	2800
20000	1600	1800	2400	2800
22000	1600	1800	2400	2800
24000	1600	1800	2400	2800
26000	1600	1800	2400	2800
28000	1600	1800	2400	2800
30000	1600	1600	2400	2800
32000	1600	1600	2400	2800
34000	1400	1600	2400	2800
36000	1400	1600	2400	2800
38000	1400	1600	2400	2800
40000	1200	1600	2400	2800

Light Guided Missile			
2	5	10	20
1400	1600	1800	2000

Medium Guided Missile				
10	20	50	100	200
1800	2000	2400	2800	2800

Heavy Guided Missile				
200	500	1000	2000	5000
2600	3000	4000	4500	6000

Aircraft Delivered Weapons									
5	10	20	50	100	200	500	1000	2000	5000
1600	1800	2000	2400	2800	2800	3600	4400	4500	6000

NOTE: Blank spaces indicate either the target is out of range or a probable minimum coverage of .3 cannot be obtained.

FREE FLIGHT ROCKET 5.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	2400	1900	2400	1800	2000	1600	600	2000	3400	700	700	1500	1000
6000	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1500	1000
7000	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1600	1000
8000	2500	2000	2500	2000	2100	1700	600	2000	3400	700	700	1600	1100
9000	2500	2000	2500	2000	2200	1700	600	2100	3500	800	700	1600	1100
10000	2600	2000	2600	2000	2200	1700	700	2100	3500	800	700	1600	1100
11000	2600	2100	2600	2100	2200	1800	700	2100	3500	800	800	1600	1100
12000	2600	2100	2600	2100	2300	1800	700	2100	3500	800	800	1700	1100
13000	2700	2100	2700	2100	2300	1800	700	2100	3500	800	800	1700	1200
14000	2700	2200	2700	2200	2300	1900	700	2200	3600	900	800	1700	1200
15000	2700	2200	2700	2200	2400	1900	800	2200	3600	900	800	1700	1200
16000	2800	2200	2800	2200	2400	1900	800	2200	3600	900	900	1700	1200
17000	2800	2300	2800	2300	2500	2000	800	2200	3600	900	900	1800	1200
18000	2800	2300	2800	2300	2500	2000	800	2200	3600	900	900	1800	1300
19000	2900	2300	2900	2300	2500	2100	800	2200	3700	900	900	1800	1300
20000	2900	2400	2900	2400	2600	2100	900	2300	3700	1000	900	1800	1300
21000	2900	2400	2900	2400	2600	2100	900	2300	3700	1000	1000	1800	1300
22000	3000	2400	3000	2400	2600	2200	900	2300	3700	1000	1000	1800	1300
23000	3000	2500	3000	2500	2700	2200	900	2300	3700	1000	1000	1900	1400
24000	3000	2500	3000	2500	2700	2200	900	2300	3700	1000	1000	1900	1400
25000	3100	2600	3100	2500	2700	2300	900	2400	3800	1100	1000	1900	1400
26000	3100	2600	3100	2600	2800	2300	1000	2400	3800	1100	1100	1900	1400
27000	3100	2600	3100	2600	2800	2300	1000	2400	3800	1100	1100	1900	1400
28000	3200	2700	3200	2700	2800	2400	1000	2400	3800	1100	1100	2000	1400
29000	3200	2700	3200	2700	2900	2400	1000	2400	3800	1100	1100	2000	1500
30000	3300	2700	3300	2700	2900	2400	1000	2500	3900	1200	1100	2000	1500
31000	3300	2800	3300	2800	2900	2500	1100	2500	3900	1200	1100	2000	1500
32000	3300	2800	3300	2800	3000	2500	1100	2500	3900	1200	1200	2000	1500
33000	3400	2800	3400	2800	3000	2500	1100	2500	3900	1200	1200	2100	1500
34000	3400	2900	3400	2900	3000	2600	1100	2500	3900	1200	1200	2100	1600
35000	3400	2900	3400	2900	3100	2600	1100	2600	4000	1200	1200	2100	1600
36000	3500	2900	3500	2900	3100	2600	1200	2600	4000	1300	1200	2100	1600
37000	3500	3000	3500	3000	3200	2700	1200	2600	4000	1300	1300	2100	1600
38000	3500	3000	3500	3000	3200	2700	1200	2600	4000	1300	1300	2200	1600
39000	3600	3000	3600	3000	3200	2800	1200	2600	4000	1300	1300	2200	1700
40000	3600	3100	3600	3100	3300	2800	1200	2600	4100	1300	1300	2200	1700

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH

24 36 30 45

FREE FLIGHT ROCKET 5.0 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE		EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	400	600	800	1000	1200	1400	1600	1800						
5000	.9/.9	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	816	128	70	-0	-0	
6000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	816	154	84	-0	-0	
7000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	816	180	98	-0	-0	
8000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	816	205	112	-0	-0	
9000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	816	231	127	-0	-0	
10000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	816	257	141	-0	-0	
11000	.9/.9	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	816	283	155	-0	-0	
12000	.9/.9	.9/.9	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	816	308	169	-0	-0	
13000	.9/.9	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	816	334	183	-0	-0	
14000	.9/.9	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	816	360	197	-0	-0	
15000	.9/.9	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	816	385	211	-0	-0	
16000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	816	411	225	-0	-0	
17000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	816	437	239	-0	-0	
18000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	816	463	254	-0	-0	
19000	.9/.9	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	816	488	268	-0	-0	
20000	.8/.9	.7/.9	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	816	514	282	-0	-0	
21000	.8/.9	.7/.9	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	816	540	296	-0	-0	
22000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	816	566	310	-0	-0	
23000	.8/.9	.6/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	816	591	324	-0	-0	
24000	.7/.9	.6/.8	.5/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	816	617	338	-0	-0	
25000	.7/.9	.6/.8	.5/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	816	643	352	-0	-0	
26000	.7/.9	.6/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	816	668	367	-0	-0	
27000	.6/.9	.5/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	816	694	381	-0	-0	
28000	.6/.8	.5/.8	.5/.7	.4/.5	.4/.5	.3/.4	.3/.3	.2/.2	816	720	395	-0	-0	
29000	.6/.8	.5/.8	.4/.7	.4/.5	.4/.5	.3/.4	.3/.3	.2/.2	816	746	409	-0	-0	
30000	.5/.8	.5/.7	.4/.6	.4/.5	.4/.5	.3/.4	.3/.3	.2/.2	816	771	423	-0	-0	
31000	.5/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.4	.3/.3	.2/.2	816	797	437	-0	-0	
32000	.5/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.4	.3/.3	.2/.2	816	823	451	-0	-0	
33000	.4/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.4	.3/.3	.2/.2	816	849	465	-0	-0	
34000	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	816	874	479	-0	-0	
35000	.3/.8	.3/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	816	900	494	-0	-0	
36000	.3/.7	.3/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	816	926	508	-0	-0	
37000	.3/.7	.3/.7	.3/.5	.3/.5	.3/.4	.3/.4	.2/.3	.3/.6	816	951	522	-0	-0	
38000	.3/.7	.3/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.3/.6	816	977	536	-0	-0	
39000	.2/.7	.3/.6	.3/.6	.3/.5	.3/.4	.2/.3	.2/.3	.3/.6	816	1003	550	-0	-0	
40000	.2/.7	.2/.6	.3/.5	.3/.5	.3/.4	.2/.3	.2/.3	.3/.5	816	1029	564	-0	-0	

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 10.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	3600	2800	2600	2000	2200	1700	800	2600	4500	900	800	2300	1500
6000	3600	2900	2600	2100	2300	1800	800	2700	4600	1000	900	2300	1500
7000	3600	2900	2700	2100	2300	1800	800	2700	4600	1000	900	2400	1500
8000	3700	3000	2700	2200	2300	1800	800	2700	4600	1000	900	2400	1600
9000	3700	3000	2700	2200	2400	1900	800	2700	4600	1000	900	2400	1600
10000	3800	3000	2800	2200	2400	1900	800	2700	4600	1000	900	2400	1600
11000	3800	3100	2800	2300	2500	2000	900	2800	4700	1100	1000	2400	1600
12000	3800	3100	2900	2300	2500	2000	900	2800	4700	1100	1000	2400	1600
13000	3900	3100	2900	2300	2500	2000	900	2800	4700	1100	1000	2500	1700
14000	3900	3200	2900	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
15000	3900	3200	3000	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
16000	4000	3200	3000	2400	2600	2100	1000	2800	4800	1100	1100	2500	1700
17000	4000	3300	3000	2500	2700	2200	1000	2900	4800	1200	1100	2500	1700
18000	4000	3300	3100	2500	2700	2200	1000	2900	4800	1200	1100	2600	1800
19000	4100	3300	3100	2500	2700	2200	1000	2900	4800	1200	1100	2600	1800
20000	4100	3400	3100	2600	2800	2300	1000	2900	4800	1200	1100	2600	1800
21000	4100	3400	3200	2600	2800	2300	1100	2900	4800	1200	1200	2600	1800
22000	4200	3400	3200	2600	2800	2300	1100	3000	4900	1300	1200	2600	1800
23000	4200	3500	3200	2700	2900	2400	1100	3000	4900	1300	1200	2700	1800
24000	4200	3500	3300	2700	2900	2400	1100	3000	4900	1300	1200	2700	1900
25000	4300	3500	3300	2700	2900	2400	1100	3000	4900	1300	1200	2700	1900
26000	4300	3600	3300	2800	3000	2500	1200	3000	4900	1300	1200	2700	1900
27000	4300	3600	3400	2800	3000	2500	1200	3100	5000	1400	1300	2700	1900
28000	4400	3700	3400	2900	3000	2500	1200	3100	5000	1400	1300	2800	1900
29000	4400	3700	3400	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
30000	4500	3700	3500	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
31000	4500	3800	3500	3000	3200	2700	1200	3100	5000	1400	1300	2800	2000
32000	4500	3800	3600	3000	3200	2700	1300	3200	5100	1500	1400	2800	2000
33000	4600	3800	3600	3000	3200	2700	1300	3200	5100	1500	1400	2800	2000
34000	4600	3900	3600	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
35000	4600	3900	3700	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
36000	4700	3900	3700	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
37000	4700	4000	3700	3200	3400	2900	1400	3200	5200	1500	1500	2900	2100
38000	4700	4000	3800	3200	3400	2900	1400	3300	5200	1600	1500	2900	2100
39000	4800	4000	3800	3200	3400	2900	1400	3300	5200	1600	1500	3000	2200
40000	4800	4100	3800	3300	3500	3000	1400	3300	5200	1600	1500	3000	2200

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH

32

47

40

59

FREE FLIGHT ROCKET 10.0 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
RANGE	RADIUS OF TARGET								PROB.	CD 90	CEP	HOB	PEH
									MIN. RD				
	600	800	1000	1200	1400	1600	2000	2400					
5000	.9/.9	.9/.9	.87/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	128	70	-0	-0
6000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	154	84	-0	-0
7000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	180	98	-0	-0
8000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	205	112	-0	-0
9000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	231	127	-0	-0
10000	.9/.9	.9/.9	.87/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	257	141	-0	-0
11000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	283	155	-0	-0
12000	.9/.9	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	308	169	-0	-0
13000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	334	183	-0	-0
14000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	360	197	-0	-0
15000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.25	955	385	211	-0	-0
16000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	411	225	-0	-0
17000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	437	239	-0	-0
18000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	463	254	-0	-0
19000	.9/.9	.8/.9	.6/.8	.5/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	488	268	-0	-0
20000	.8/.9	.7/.9	.6/.7	.5/.6	.5/.5	.4/.4	.2/.2	.2/.2	955	514	282	-0	-0
21000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.2/.2	.2/.2	955	540	296	-0	-0
22000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.2/.2	.2/.2	955	566	310	-0	-0
23000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.2/.2	.2/.2	955	591	324	-0	-0
24000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.2/.2	.2/.2	955	617	338	-0	-0
25000	.7/.9	.6/.8	.6/.7	.5/.6	.4/.5	.4/.4	.2/.2	.2/.2	955	643	352	-0	-0
26000	.7/.9	.6/.8	.5/.7	.5/.6	.4/.5	.4/.4	.2/.2	.2/.2	955	668	367	-0	-0
27000	.7/.9	.6/.8	.5/.7	.5/.6	.4/.5	.4/.4	.2/.2	.2/.2	955	694	381	-0	-0
28000	.7/.9	.6/.8	.5/.7	.5/.6	.4/.5	.4/.4	.2/.2	.2/.2	955	720	395	-0	-0
29000	.6/.9	.6/.8	.5/.7	.5/.6	.4/.5	.3/.4	.2/.2	.2/.2	955	746	409	-0	-0
30000	.6/.8	.5/.8	.5/.7	.4/.5	.4/.5	.3/.4	.2/.2	.2/.2	955	771	423	-0	-0
31000	.6/.8	.5/.7	.5/.6	.4/.5	.4/.5	.3/.4	.2/.2	.2/.2	955	797	437	-0	-0
32000	.6/.8	.5/.7	.5/.6	.4/.5	.4/.5	.3/.4	.2/.2	.2/.2	955	823	451	-0	-0
33000	.5/.8	.5/.7	.5/.6	.4/.5	.4/.5	.3/.4	.2/.2	.2/.2	955	849	465	-0	-0
34000	.5/.8	.5/.7	.4/.6	.4/.5	.4/.5	.3/.4	.2/.2	.2/.2	955	874	479	-0	-0
35000	.5/.8	.5/.7	.4/.6	.4/.5	.4/.5	.3/.4	.2/.2	.2/.2	955	900	494	-0	-0
36000	.5/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.4	.2/.2	.2/.2	955	926	508	-0	-0
37000	.4/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.4	.2/.2	.2/.2	955	951	522	-0	-0
38000	.4/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.4	.2/.2	.2/.2	955	977	536	-0	-0
39000	.4/.7	.4/.7	.4/.6	.3/.5	.3/.4	.3/.4	.2/.2	.2/.2	955	1003	550	-0	-0
40000	.4/.7	.4/.7	.4/.6	.3/.5	.3/.4	.3/.4	.2/.2	.2/.2	955	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 50.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	8700	6600	4500	3900	2800	2400	1300	4700	8100	1700	1600	5300	3400
6000	8700	6600	4600	3900	2800	2400	1300	4700	8200	1700	1600	5300	3400
7000	8800	6600	4600	3900	2900	2500	1400	4700	8200	1700	1600	5400	3400
8000	8800	6700	4600	4000	2900	2500	1400	4700	8200	1800	1600	5400	3500
9000	8800	6700	4700	4000	2900	2500	1400	4800	8200	1800	1700	5400	3500
10000	8900	6800	4700	4000	3000	2600	1400	4800	8200	1800	1700	5400	3500
11000	8900	6800	4800	4100	3000	2600	1400	4800	8300	1800	1700	5400	3500
12000	8900	6800	4800	4100	3000	2600	1500	4800	8300	1800	1700	5500	3500
13000	9000	6900	4800	4100	3100	2700	1500	4800	8300	1900	1700	5500	3500
14000	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1700	5500	3600
15000	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1800	5500	3600
16000	9100	7000	4900	4300	3200	2800	1500	4900	8300	1900	1800	5500	3600
17000	9100	7000	5000	4300	3200	2800	1600	4900	8400	1900	1800	5600	3600
18000	9100	7000	5000	4300	3200	2800	1600	4900	8400	1900	1800	5600	3600
19000	9200	7100	5000	4400	3300	2900	1600	4900	8400	2000	1800	5600	3700
20000	9200	7100	5100	4400	3300	2900	1600	5000	8400	2000	1900	5600	3700
21000	9200	7100	5100	4400	3300	2900	1600	5000	8400	2000	1900	5600	3700
22000	9300	7200	5100	4500	3400	3000	1600	5000	8500	2000	1900	5700	3700
23000	9300	7200	5200	4500	3400	3000	1700	5000	8500	2000	1900	5700	3700
24000	9300	7200	5200	4500	3400	3000	1700	5000	8500	2100	1900	5700	3800
25000	9400	7300	5200	4600	3500	3100	1700	5100	8500	2100	2000	5700	3800
26000	9400	7300	5300	4600	3500	3100	1700	5100	8500	2100	2000	5700	3800
27000	9500	7300	5300	4600	3600	3200	1700	5100	8600	2100	2000	5700	3800
28000	9500	7400	5300	4700	3600	3200	1800	5100	8600	2100	2000	5800	3800
29000	9500	7400	5400	4700	3600	3200	1800	5100	8600	2200	2000	5800	3900
30000	9600	7500	5400	4700	3700	3300	1800	5200	8600	2200	2000	5800	3900
31000	9600	7500	5500	4800	3700	3300	1800	5200	8600	2200	2100	5800	3900
32000	9600	7500	5500	4800	3700	3300	1800	5200	8700	2200	2100	5800	3900
33000	9700	7600	5500	4800	3800	3400	1900	5200	8700	2200	2100	5900	3900
34000	9700	7600	5600	4900	3800	3400	1900	5200	8700	2300	2100	5900	3900
35000	9700	7600	5600	4900	3800	3400	1900	5200	8700	2300	2100	5900	4000
36000	9800	7700	5600	5000	3900	3500	1900	5300	8700	2300	2200	5900	4000
37000	9800	7700	5700	5000	3900	3500	1900	5300	8700	2300	2200	5900	4000
38000	9800	7700	5700	5000	3900	3500	1900	5300	8800	2300	2200	6000	4000
39000	9900	7800	5700	5100	4000	3600	2000	5300	8800	2300	2200	6000	4000
40000	9900	7800	5800	5100	4000	3600	2000	5300	8800	2400	2200	6000	4100

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
53	79	67	98

FREE FLIGHT ROCKET
50.0 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL
SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								ACCURACY DATA				
	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
	600	800	1200	1600	2000	2400	2800	3200					
5000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	128	70	-0	-0
6000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	154	84	-0	-0
7000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	180	98	-0	-0
8000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	205	112	-0	-0
9000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	231	127	-0	-0
10000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	257	141	-0	-0
11000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	283	155	-0	-0
12000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	308	169	-0	-0
13000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	334	183	-0	-0
14000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	360	197	-0	-0
15000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	385	211	-0	-0
16000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	411	225	-0	-0
17000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	437	239	-0	-0
18000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	463	254	-0	-0
19000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	488	268	-0	-0
20000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	514	282	-0	-0
21000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	540	296	-0	-0
22000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	566	310	-0	-0
23000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	591	324	-0	-0
24000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	617	338	-0	-0
25000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	643	352	-0	-0
26000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	668	367	-0	-0
27000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	694	381	-0	-0
28000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	720	395	-0	-0
29000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	746	409	-0	-0
30000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	771	423	-0	-0
31000	.8/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	797	437	-0	-0
32000	.8/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	823	451	-0	-0
33000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	849	465	-0	-0
34000	.8/.9	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	874	479	-0	-0
35000	.8/.9	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	900	494	-0	-0
36000	.8/.9	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	926	508	-0	-0
37000	.7/.9	.7/.9	.5/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	951	522	-0	-0
38000	.7/.9	.6/.9	.5/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1265	977	536	-0	-0
39000	.7/.9	.6/.8	.5/.7	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	1265	1003	550	-0	-0
40000	.7/.9	.5/.8	.5/.7	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	1265	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 100.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES				
RANGE	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	12300	9100	6200	5200	3800	3200	1700	5900	10200	2100	2000	7400	4700
6000	12300	9100	6300	5300	3800	3200	1700	5900	10200	2100	2000	7400	4700
7000	12400	9200	6300	5300	3800	3300	1700	5900	10300	2100	2100	7400	4700
8000	12400	9200	6300	5300	3900	3300	1700	5900	10300	2200	2100	7400	4700
9000	12400	9200	6400	5400	3900	3300	1700	5900	10300	2200	2100	7500	4800
10000	12500	9300	6400	5400	3900	3400	1800	6000	10300	2200	2100	7500	4800
11000	12500	9300	6400	5400	4000	3400	1800	6000	10300	2200	2100	7500	4800
12000	12500	9300	6500	5500	4000	3400	1800	6000	10400	2200	2200	7500	4800
13000	12600	9400	6500	5500	4000	3500	1800	6000	10400	2300	2200	7500	4800
14000	12600	9400	6500	5600	4100	3500	1800	6000	10400	2300	2200	7600	4900
15000	12700	9400	6600	5600	4100	3500	1900	6000	10400	2300	2200	7600	4900
16000	12700	9500	6600	5600	4200	3600	1900	6100	10400	2300	2200	7600	4900
17000	12700	9500	6600	5700	4200	3600	1900	6100	10400	2300	2200	7600	4900
18000	12800	9500	6700	5700	4200	3600	1900	6100	10500	2300	2300	7600	4900
19000	12800	9600	6700	5700	4300	3700	1900	6100	10500	2400	2300	7600	4900
20000	12800	9600	6700	5800	4300	3700	1900	6100	10500	2400	2300	7700	5000
21000	12900	9600	6800	5800	4300	3800	2000	6200	10500	2400	2300	7700	5000
22000	12900	9700	6800	5800	4400	3800	2000	6200	10500	2400	2300	7700	5000
23000	12900	9700	6800	5900	4400	3800	2000	6200	10600	2400	2400	7700	5000
24000	13000	9700	6900	5900	4400	3900	2000	6200	10600	2500	2400	7700	5000
25000	13000	9800	6900	5900	4500	3900	2000	6200	10600	2500	2400	7800	5100
26000	13000	9800	7000	6000	4500	3900	2100	6300	10600	2500	2400	7800	5100
27000	13100	9900	7000	6000	4500	4000	2100	6300	10600	2500	2400	7800	5100
28000	13100	9900	7000	6000	4600	4000	2100	6300	10700	2500	2500	7800	5100
29000	13100	9900	7100	6100	4600	4000	2100	6300	10700	2600	2500	7800	5100
30000	13200	10000	7100	6100	4600	4100	2100	6300	10700	2600	2500	7900	5200
31000	13200	10000	7100	6100	4700	4100	2200	6400	10700	2600	2500	7900	5200
32000	13200	10000	7200	6200	4700	4100	2200	6400	10700	2600	2500	7900	5200
33000	13300	10100	7200	6200	4700	4200	2200	6400	10700	2600	2600	7900	5200
34000	13300	10100	7200	6300	4800	4200	2200	6400	10800	2700	2600	7900	5200
35000	13400	10100	7300	6300	4800	4200	2200	6400	10800	2700	2600	8000	5300
36000	13400	10200	7300	6300	4900	4300	2300	6400	10800	2700	2600	8000	5300
37000	13400	10200	7300	6400	4900	4300	2300	6500	10800	2700	2600	8000	5300
38000	13500	10200	7400	6400	4900	4300	2300	6500	10800	2700	2600	8000	5300
39000	13500	10300	7400	6400	5000	4400	2300	6500	10900	2700	2700	8000	5300
40000	13500	10300	7400	6500	5000	4400	2300	6500	10900	2800	2700	8000	5300

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
65	96	82	120

FREE FLIGHT ROCKET 100.0 KT

DELAYED CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	800	1200	1600	2000	2400	2800	3200	3600					
5000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	128	70	-0	-0
6000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	154	84	-0	-0
7000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	180	98	-0	-0
8000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	205	112	-0	-0
9000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	231	127	-0	-0
10000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	257	141	-0	-0
11000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	283	155	-0	-0
12000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	308	169	-0	-0
13000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	334	183	-0	-0
14000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	360	197	-0	-0
15000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	385	211	-0	-0
16000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	411	225	-0	-0
17000	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	437	239	-0	-0
18000	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	463	254	-0	-0
19000	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	488	268	-0	-0
20000	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	514	282	-0	-0
21000	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	540	296	-0	-0
22000	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	566	310	-0	-0
23000	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	591	324	-0	-0
24000	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	617	338	-0	-0
25000	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	643	352	-0	-0
26000	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	668	367	-0	-0
27000	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	694	381	-0	-0
28000	.9/.9	.7/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	720	395	-0	-0
29000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	746	409	-0	-0
30000	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	771	423	-0	-0
31000	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	797	437	-0	-0
32000	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	823	451	-0	-0
33000	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	849	465	-0	-0
34000	.8/.9	.7/.8	.6/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	874	479	-0	-0
35000	.8/.9	.7/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	900	494	-0	-0
36000	.8/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	926	508	-0	-0
37000	.8/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	951	522	-0	-0
38000	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	977	536	-0	-0
39000	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	1003	550	-0	-0
40000	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	1403	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

LIGHT GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2 KT	2200	1700	2200	1700	1900	1400	500	1500	2500	500	500	1000	700
5 KT	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1500	1000
10 KT	3600	2900	2600	2100	2300	1800	800	2700	4600	1000	900	2300	1500
20 KT	5500	4300	3000	2600	2500	2000	1000	3500	6000	1300	1200	3500	2200

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
2 KT	18	4	23	5
5 KT	24	5	30	6
10 KT	32	7	40	8
20 KT	41	15	51	19

LIGHT GUIDED MISSILE

DELAYED CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
YIELD	RADIUS OF TARGET								PROB.	CD 90	CEP	HOB	PEH
									MIN. RD				
2KT	600	800	1000	1200	1400	1600	1800	2000	686	182	100	-0	-0
	.9/.9	.7/.7	.5/.5	.3/.3	.3/.3	.2/.2	.2/.2	.1/.1					
5 KT	800	1000	1200	1400	1600	1800	2000	2200	816	182	100	-0	-0
	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					
10 KT	1000	1200	1400	1600	1800	2000	2200	2400	955	182	100	-0	-0
	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					
20 KT	600	800	1200	1600	2000	2400	2800	3200	1099	182	100	-0	-0
	.9/.9	.9/.9	.8/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1					

Range span 10,000 - 50,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

MEDIUM GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
10 KT	4400	3700	3400	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
20 KT	6300	5100	3800	3400	3300	2800	1400	3900	6500	1700	1600	3900	2700
50 KT	9500	7400	5400	4700	3600	3200	1800	5100	8600	2200	2000	5800	3800
100 KT	13100	9900	7000	6100	4600	4000	2100	6300	10700	2600	2500	7800	5100
200 KT	18300	13300	9300	8000	6000	5100	2500	7800	13300	3100	3100	10700	6900

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
10 KT	32	11	40	14
20 KT	41	15	51	19
50 KT	53	19	67	24
100 KT	65	24	82	30
200 KT	80	29	100	36

MEDIUM GUIDED MISSILE

DELAYED CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									PROB. MIN. RD	ACCURACY DATA			
YIELD	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
10 KT	600	800	1000	1200	1400	1600	1800	2000	955	911	500	-0	-0
	.5/.8	.4/.7	.4/.6	.4/.5	.4/.5	.3/.4	.3/.3	.2/.2					
20 KT	600	800	1200	1600	2000	2400	2800	3200	1099	911	500	-0	-0
	.6/.9	.6/.8	.5/.6	.4/.5	.3/.3	.2/.2	.2/.2	.1/.1					
50 KT	600	800	1200	1600	2000	2400	2800	3200	1265	911	500	-0	-0
	.8/.9	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2					
100 KT	800	1200	1600	2000	2400	2800	3200	3600	1403	911	500	-0	-0
	.8/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2					
200 KT	1200	1600	2000	2400	2800	3200	3600	4000	1549	911	500	-0	-0
	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					

Range span 50,000 - 150,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

HEAVY GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
200 KT	19300	14300	10300	9000	7000	6100	3100	8300	13800	3700	3600	11200	7500
500 KT	29600	20900	14800	12600	9600	8300	3900	10900	18400	4700	4600	16700	10900
1000 KT	41200	28000	19600	16700	12500	10700	4600	13400	22800	5700	5500	22800	14700
2000 KT	45900	30800	21600	18300	13600	11700	4900	14400	24500	6200	5800	25200	16200
5000 KT	64200	41400	29000	24800	18000	15400	5900	17800	30600	7800	7100	34400	22000

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
200 KT	80	58	100	73
500 KT	104	76	130	95
1000 KT	127	93	159	117
2000 KT	135	99	169	124
5000 KT	165	121	207	152

HEAVY GUIDED MISSILE

DELAYED CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
YIELD	RADIUS OF TARGET								PROB. MIN. RD	CD 90	CEP	HOB	PEH
200 KT	1000 .3/.7	1800 .3/.5	2600 .3/.4	3400 .2/.2	4200 .1/.1	5000 .1/.1	6000 .1/.1	7000 .1/.1	1549	1822	1000	-0	-0
500 KT	1000 .4/.8	2000 .4/.6	3000 .3/.4	4000 .2/.2	5000 .1/.1	6000 .1/.1	7000 .1/.1	8000 .1/.1	1780	1822	1000	-0	-0
1000 KT	1000 .7/.9	2000 .5/.7	3000 .4/.5	4000 .3/.3	5000 .2/.2	6000 .1/.1	8000 .1/.1	10000 .0/.0	2200	1822	1000	-0	-0
2000 KT	1000 .7/.9	2000 .6/.8	3000 .5/.6	4000 .4/.4	5000 .2/.2	6000 .2/.2	8000 .1/.1	12000 .0/.0	2370	1822	1000	-0	-0
5000 KT	1000 .9/.9	2000 .8/.9	4000 .5/.6	6000 .3/.3	8000 .1/.1	10000 .1/.1	12000 .1/.1	14000 .0/.0	2983	1822	1000	-0	-0

Range span 50,000 - 300,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

AIRCRAFT DELIVERED WEAPONS

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5 KT	2700	2200	2700	2200	2400	1900	700	2200	3600	900	800	1700	1200
10 KT	3900	3200	2900	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
20 KT	5800	4600	3300	2900	2800	2300	1200	3700	6200	1500	1300	3600	2400
50 KT	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1800	5500	3600
100 KT	12600	9400	6500	5600	4100	3500	1800	6000	10400	2300	2200	7600	4900
200 KT	17800	12800	8800	7500	5500	4600	2300	7500	13000	2800	2800	10400	6600
500 KT	28100	19400	13300	11100	8100	6800	3000	10100	17500	3900	3800	15900	10100
1000 KT	39700	26500	18100	15200	11000	9200	3800	12600	22000	4900	4700	22000	13900
2000 KT	44400	29300	20100	16800	12100	10200	4100	13600	23700	5400	5000	24400	15400
5000 KT	62700	39900	27500	23100	16500	13900	5100	17000	29700	7000	6300	33600	21200

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
5 KT	24	9	30	11
10 KT	32	11	40	14
20 KT	41	15	51	19
50 KT	53	19	67	24
100 KT	65	24	82	30
200 KT	80	29	100	36
500 KT	104	38	130	47
1000 KT	127	46	159	58
2000 KT	135	99	169	124
5000 KT	165	121	207	152

AIRCRAFT DELIVERED WEAPONS

DELAYED CASUALTIES TO PROTECTED PERSONNEL SURFACE BURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
5 KT	800	1000	1200	1400	1600	1800	2000	2200	816	455	250	-0	-0
	.7/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					
10 KT	1000	1200	1400	1600	1800	2000	2200	2400	955	455	250	-0	-0
	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					
20 KT	600	800	1200	1600	2000	2400	2800	3200	1099	455	250	-0	-0
	.9/.9	.9/.9	.7/.8	.5/.5	.3/.3	.2/.2	.2/.2	.1/.1					
50 KT	600	800	1200	1600	2000	2400	2800	3200	1265	455	250	-0	-0
	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2					
100 KT	800	1200	1600	2000	2400	2800	3200	3600	1403	455	250	-0	-0
	.9/.9	.9/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2					
200 KT	1200	1600	2000	2400	2800	3200	3600	4000	1549	455	250	-0	-0
	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					
500 KT	1200	1600	2000	2400	2800	3200	3600	4000	1780	455	250	-0	-0
	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2					
1000 KT	2000	2400	2800	3200	3600	4000	4400	4800	2200	455	250	-0	-0
	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2					
2000 KT	2500	3000	3500	4000	4500	5000	5500	6000	2370	455	250	-0	-0
	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					
5000 KT	3000	4000	5000	6000	7000	8000	9000	10000	2983	455	250	-0	-0
	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.1/.1	.1/.1	.1/.1					

A FALLOUT PREDICTION SHOULD BE MADE

CHAPTER 15

COVERAGE TABLES FOR

SURFACE BURST

MODERATE DAMAGE TO WHEELED VEHICLES

	Page
Free Flight Rocket 5.0 KT	285
10.0 KT	287
50.0 KT	289
100.0 KT	291
Light Guided Missile 2, 5, 10, and 20 KT	293
Medium Guided Missile 10, 20, 50, 100, and 200 KT	295
Heavy Guided Missile 200, 500, 1,000, 2,000, and 5,000 KT	297
Aircraft Delivered Weapons 5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, and 5,000 KT	299

TABLES OF MAXIMUM TARGET RADIUS (.3 Probable Minimum Coverage)

(Distances in Meters)

SURFACE BURST

MODERATE DAMAGE TO WHEELED VEHICLES

Range	Free Flight Rocket			
	5	10	50	100
5000	1000	1400	2900	3600
6000	1000	1400	2900	3600
7000	1000	1400	2900	3600
8000	1000	1400	2900	3600
9000	1000	1400	2900	3600
10000	1000	1400	2900	3600
12000	1000	1400	2900	3600
14000	1000	1400	2900	3600
16000	1000	1400	2900	3600
18000	1000	1400	2900	3600
20000	1000	1400	2900	3600
22000	850	1400	2900	3600
24000	850	1400	2900	3600
26000		1400	2900	3600
28000		1400	2900	3600
30000		1400	2900	3600
32000		1200	2900	3600
34000		1200	2900	3600
36000		1000	2900	3600
38000			2900	3600
40000			2900	3600

Light Guided Missile			
2	5	10	20
700	1000	1400	2000

Medium Guided Missile				
10	20	50	100	200
1100	1800	2800	3600	5200

Heavy Guided Missile				
200	500	1000	2000	5000
5000	7000	10000	10000	13600

Aircraft Delivered Weapons									
5	10	20	50	100	200	500	1000	2000	5000
900	1400	2100	2900	3600	5000	7600	10000	11000	13000

NOTE: Blank spaces indicate either the target is out of range or a probable minimum coverage of .3 cannot be obtained.

FREE FLIGHT ROCKET 5.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	2400	1900	2400	1800	2000	1600	600	2000	3400	700	700	1500	1000
6000	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1500	1000
7000	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1600	1000
8000	2500	2000	2500	2000	2100	1700	600	2000	3400	700	700	1600	1100
9000	2500	2000	2500	2000	2200	1700	600	2100	3500	800	700	1600	1100
10000	2600	2000	2600	2000	2200	1700	700	2100	3500	800	700	1600	1100
11000	2600	2100	2600	2100	2200	1800	700	2100	3500	800	800	1600	1100
12000	2600	2100	2600	2100	2300	1800	700	2100	3500	800	800	1700	1100
13000	2700	2100	2700	2100	2300	1800	700	2100	3500	800	800	1700	1200
14000	2700	2200	2700	2200	2300	1900	700	2200	3600	900	800	1700	1200
15000	2700	2200	2700	2200	2400	1900	800	2200	3600	900	800	1700	1200
16000	2800	2200	2800	2200	2400	1900	800	2200	3600	900	900	1700	1200
17000	2800	2300	2800	2300	2500	2000	800	2200	3600	900	900	1800	1200
18000	2800	2300	2800	2300	2500	2000	800	2200	3600	900	900	1800	1300
19000	2900	2300	2900	2300	2500	2100	800	2200	3700	900	900	1800	1300
20000	2900	2400	2900	2400	2600	2100	900	2300	3700	1000	900	1800	1300
21000	2900	2400	2900	2400	2600	2100	900	2300	3700	1000	1000	1800	1300
22000	3000	2400	3000	2400	2600	2200	900	2300	3700	1000	1000	1800	1300
23000	3000	2500	3000	2500	2700	2200	900	2300	3700	1000	1000	1900	1400
24000	3000	2500	3000	2500	2700	2200	900	2300	3700	1000	1000	1900	1400
25000	3100	2600	3100	2500	2700	2300	900	2400	3800	1100	1000	1900	1400
26000	3100	2600	3100	2600	2800	2300	1000	2400	3800	1100	1100	1900	1400
27000	3100	2600	3100	2600	2800	2300	1000	2400	3800	1100	1100	1900	1400
28000	3200	2700	3200	2700	2800	2400	1000	2400	3800	1100	1100	2000	1400
29000	3200	2700	3200	2700	2900	2400	1000	2400	3800	1100	1100	2000	1500
30000	3300	2700	3300	2700	2900	2400	1000	2500	3900	1200	1100	2000	1500
31000	3300	2800	3300	2800	2900	2500	1100	2500	3900	1200	1100	2000	1500
32000	3300	2800	3300	2800	3000	2500	1100	2500	3900	1200	1200	2000	1500
33000	3400	2800	3400	2800	3000	2500	1100	2500	3900	1200	1200	2100	1500
34000	3400	2900	3400	2900	3000	2600	1100	2500	3900	1200	1200	2100	1600
35000	3400	2900	3400	2900	3100	2600	1100	2600	4000	1200	1200	2100	1600
36000	3500	2900	3500	2900	3100	2600	1200	2600	4000	1300	1200	2100	1600
37000	3500	3000	3500	3000	3200	2700	1200	2600	4000	1300	1300	2100	1600
38000	3500	3000	3500	3000	3200	2700	1200	2600	4000	1300	1300	2200	1600
39000	3600	3000	3600	3000	3200	2800	1200	2600	4000	1300	1300	2200	1700
40000	3600	3100	3600	3100	3300	2800	1200	2600	4100	1300	1300	2200	1700

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
24	36	30	45

FREE FLIGHT ROCKET 5.0 KT

MODERATE DAMAGE TO WHEELED VEHICLES SURFACE BURST

COVERAGE TABLE (Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
RANGE	RADIUS OF TARGET								PROB.	CD 90	CEP	HOB	PEH
									MIN. RD				
	100	250	400	550	700	850	1000	1150					
5000	.9/.9	.9/.9	.9/.9	.8/.8	.5/.5	.4/.4	.3/.3	.2/.2	504	128	70	-0	-0
6000	.9/.9	.9/.9	.9/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	504	154	84	-0	-0
7000	.9/.9	.9/.9	.9/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	504	180	98	-0	-0
8000	.9/.9	.9/.9	.8/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	504	205	112	-0	-0
9000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	504	231	127	-0	-0
10000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	504	257	141	-0	-0
11000	.9/.9	.9/.9	.7/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	504	283	155	-0	-0
12000	.9/.9	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	504	308	169	-0	-0
13000	.9/.9	.8/.9	.7/.8	.5/.7	.5/.5	.4/.4	.3/.3	.2/.2	504	334	183	-0	-0
14000	.9/.9	.8/.9	.6/.8	.5/.7	.4/.5	.4/.4	.3/.3	.2/.2	504	360	197	-0	-0
15000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	504	385	211	-0	-0
16000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	504	411	225	-0	-0
17000	.7/.9	.6/.9	.5/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	504	437	239	-0	-0
18000	.6/.9	.6/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	504	463	254	-0	-0
19000	.5/.9	.5/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	504	488	268	-0	-0
20000	.5/.8	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.2	504	514	282	-0	-0
21000	.4/.8	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.2/.3	.2/.2	504	540	296	-0	-0
22000	.3/.8	.3/.7	.3/.7	.3/.6	.3/.4	.3/.4	.2/.3	.2/.2	504	566	310	-0	-0
23000	.2/.8	.3/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	504	591	324	-0	-0
24000	.2/.8	.2/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	504	617	338	-0	-0
25000	.1/.7	.2/.7	.2/.6	.3/.5	.3/.4	.2/.3	.2/.3	.2/.2	504	643	352	-0	-0
26000	.1/.7	.2/.7	.2/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	504	668	367	-0	-0
27000	.1/.7	.1/.6	.2/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	504	694	381	-0	-0
28000	.0/.7	.1/.6	.2/.5	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	504	720	395	-0	-0
29000	.0/.6	.1/.6	.1/.5	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	504	746	409	-0	-0
30000	.0/.6	.0/.6	.1/.5	.2/.4	.2/.4	.2/.3	.2/.2	.2/.2	504	771	423	-0	-0
31000	.0/.6	.0/.6	.1/.5	.1/.4	.2/.4	.2/.3	.2/.2	.2/.2	504	797	437	-0	-0
32000	.0/.6	.0/.6	.1/.5	.1/.4	.2/.4	.2/.3	.2/.2	.2/.2	504	823	451	-0	-0
33000	.0/.5	.0/.5	.1/.5	.1/.4	.1/.3	.2/.3	.2/.2	.2/.2	504	849	465	-0	-0
34000	.0/.5	.0/.5	.0/.5	.1/.4	.1/.3	.1/.3	.2/.2	.2/.2	504	874	479	-0	-0
35000	.0/.5	.0/.5	.0/.4	.1/.4	.1/.3	.1/.3	.1/.2	.1/.2	504	900	494	-0	-0
36000	.0/.5	.0/.5	.0/.4	.1/.4	.1/.3	.1/.3	.1/.2	.1/.2	504	926	508	-0	-0
37000	.0/.5	.0/.4	.0/.4	.0/.4	.1/.3	.1/.3	.1/.2	.1/.2	504	951	522	-0	-0
38000	.0/.5	.0/.4	.0/.4	.0/.4	.1/.3	.1/.3	.1/.2	.1/.2	504	977	536	-0	-0
39000	.0/.4	.0/.4	.0/.4	.0/.3	.1/.3	.1/.3	.1/.2	.1/.2	504	1003	550	-0	-0
40000	.0/.4	.0/.4	.0/.4	.0/.3	.1/.3	.1/.3	.1/.2	.1/.2	504	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 10.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	3600	2800	2600	2000	2200	1700	800	2600	4500	900	800	2300	1500
6000	3600	2900	2600	2100	2300	1800	800	2700	4600	1000	900	2300	1500
7000	3600	2900	2700	2100	2300	1800	800	2700	4600	1000	900	2400	1500
8000	3700	3000	2700	2200	2300	1800	800	2700	4600	1000	900	2400	1600
9000	3700	3000	2700	2200	2400	1900	800	2700	4600	1000	900	2400	1600
10000	3800	3000	2800	2200	2400	1900	800	2700	4600	1000	900	2400	1600
11000	3800	3100	2800	2300	2500	2000	900	2800	4700	1100	1000	2400	1600
12000	3800	3100	2900	2300	2500	2000	900	2800	4700	1100	1000	2400	1600
13000	3900	3100	2900	2300	2500	2000	900	2800	4700	1100	1000	2500	1700
14000	3900	3200	2900	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
15000	3900	3200	3000	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
16000	4000	3200	3000	2400	2600	2100	1000	2800	4800	1100	1100	2500	1700
17000	4000	3300	3000	2500	2700	2200	1000	2900	4800	1200	1100	2500	1700
18000	4000	3300	3100	2500	2700	2200	1000	2900	4800	1200	1100	2600	1800
19000	4100	3300	3100	2500	2700	2200	1000	2900	4800	1200	1100	2600	1800
20000	4100	3400	3100	2600	2800	2300	1000	2900	4800	1200	1100	2600	1800
21000	4100	3400	3200	2600	2800	2300	1100	2900	4800	1200	1200	2600	1800
22000	4200	3400	3200	2600	2800	2300	1100	3000	4900	1300	1200	2600	1800
23000	4200	3500	3200	2700	2900	2400	1100	3000	4900	1300	1200	2700	1800
24000	4200	3500	3300	2700	2900	2400	1100	3000	4900	1300	1200	2700	1900
25000	4300	3500	3300	2700	2900	2400	1100	3000	4900	1300	1200	2700	1900
26000	4300	3600	3300	2800	3000	2500	1200	3000	4900	1300	1200	2700	1900
27000	4300	3600	3400	2800	3000	2500	1200	3100	5000	1400	1300	2700	1900
28000	4400	3700	3400	2900	3000	2500	1200	3100	5000	1400	1300	2800	1900
29000	4400	3700	3400	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
30000	4500	3700	3500	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
31000	4500	3800	3500	3000	3200	2700	1200	3100	5000	1400	1300	2800	2000
32000	4500	3800	3600	3000	3200	2700	1300	3200	5100	1500	1400	2800	2000
33000	4600	3800	3600	3000	3200	2700	1300	3200	5100	1500	1400	2800	2000
34000	4600	3900	3600	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
35000	4600	3900	3700	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
36000	4700	3900	3700	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
37000	4700	4000	3700	3200	3400	2900	1400	3200	5200	1500	1500	2900	2100
38000	4700	4000	3800	3200	3400	2900	1400	3300	5200	1600	1500	2900	2100
39000	4800	4000	3800	3200	3400	2900	1400	3300	5200	1600	1500	3000	2200
40000	4800	4100	3800	3300	3500	3000	1400	3300	5200	1600	1500	3000	2200

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
32	47	40	59

FREE FLIGHT ROCKET
10.0 KT

MODERATE DAMAGE TO WHEELED VEHICLES
SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
RANGE	RADIUS OF TARGET								PROB.	CD 90	CEP	HOB	PEH
									MIN. RD				
	200	400	600	800	1000	1200	1400	1600					
5000	.9/.9	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	727	128	70	-0	-0
6000	.9/.9	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	727	154	84	-0	-0
7000	.9/.9	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	727	180	98	-0	-0
8000	.9/.9	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	727	205	112	-0	-0
9000	.9/.9	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	727	231	127	-0	-0
10000	.9/.9	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	727	257	141	-0	-0
11000	.9/.9	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	727	283	155	-0	-0
12000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.6	.4/.4	.3/.3	.2/.2	727	308	169	-0	-0
13000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	727	334	183	-0	-0
14000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	727	360	197	-0	-0
15000	.9/.9	.9/.9	.7/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	727	385	211	-0	-0
16000	.9/.9	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	727	411	225	-0	-0
17000	.9/.9	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	727	437	239	-0	-0
18000	.9/.9	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	727	463	254	-0	-0
19000	.9/.9	.8/.9	.6/.8	.5/.7	.5/.5	.4/.4	.3/.3	.2/.2	727	488	268	-0	-0
20000	.9/.9	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	727	514	282	-0	-0
21000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	727	540	296	-0	-0
22000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	727	566	310	-0	-0
23000	.8/.9	.6/.9	.5/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	727	591	324	-0	-0
24000	.7/.9	.6/.8	.5/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	727	617	338	-0	-0
25000	.7/.9	.6/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	727	643	352	-0	-0
26000	.6/.9	.5/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	727	668	367	-0	-0
27000	.6/.9	.5/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	727	694	381	-0	-0
28000	.5/.8	.5/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	727	720	395	-0	-0
29000	.4/.8	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.2	727	746	409	-0	-0
30000	.4/.8	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.2	727	771	423	-0	-0
31000	.3/.8	.4/.7	.3/.7	.3/.6	.3/.5	.3/.4	.2/.3	.2/.2	727	797	437	-0	-0
32000	.3/.8	.3/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	727	823	451	-0	-0
33000	.2/.8	.3/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	727	849	465	-0	-0
34000	.2/.7	.3/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	727	874	479	-0	-0
35000	.2/.7	.2/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	727	900	494	-0	-0
36000	.1/.7	.2/.7	.2/.6	.3/.5	.3/.4	.2/.3	.2/.3	.2/.2	727	926	508	-0	-0
37000	.1/.7	.2/.6	.2/.6	.2/.5	.3/.4	.2/.3	.2/.3	.2/.2	727	951	522	-0	-0
38000	.1/.7	.2/.6	.2/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	727	977	536	-0	-0
39000	.1/.7	.1/.6	.2/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	727	1003	550	-0	-0
40000	.1/.6	.1/.6	.2/.5	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	727	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 50.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	8700	6600	4500	3900	2800	2400	1300	4700	8100	1700	1600	5300	3400
6000	8700	6600	4600	3900	2800	2400	1300	4700	8200	1700	1600	5300	3400
7000	8800	6600	4600	3900	2900	2500	1400	4700	8200	1700	1600	5400	3400
8000	8800	6700	4600	4000	2900	2500	1400	4700	8200	1800	1600	5400	3500
9000	8800	6700	4700	4000	2900	2500	1400	4800	8200	1800	1700	5400	3500
10000	8900	6800	4700	4000	3000	2600	1400	4800	8200	1800	1700	5400	3500
11000	8900	6800	4800	4100	3000	2600	1400	4800	8300	1800	1700	5400	3500
12000	8900	6800	4800	4100	3000	2600	1500	4800	8300	1800	1700	5500	3500
13000	9000	6900	4800	4100	3100	2700	1500	4800	8300	1900	1700	5500	3500
14000	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1700	5500	3600
15000	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1800	5500	3600
16000	9100	7000	4900	4300	3200	2800	1500	4900	8300	1900	1800	5500	3600
17000	9100	7000	5000	4300	3200	2800	1600	4900	8400	1900	1800	5600	3600
18000	9100	7000	5000	4300	3200	2800	1600	4900	8400	1900	1800	5600	3600
19000	9200	7100	5000	4400	3300	2900	1600	4900	8400	2000	1800	5600	3700
20000	9200	7100	5100	4400	3300	2900	1600	5000	8400	2000	1900	5600	3700
21000	9200	7100	5100	4400	3300	2900	1600	5000	8400	2000	1900	5600	3700
22000	9300	7200	5100	4500	3400	3000	1600	5000	8500	2000	1900	5700	3700
23000	9300	7200	5200	4500	3400	3000	1700	5000	8500	2000	1900	5700	3700
24000	9300	7200	5200	4500	3400	3000	1700	5000	8500	2100	1900	5700	3800
25000	9400	7300	5200	4600	3500	3100	1700	5100	8500	2100	2000	5700	3800
26000	9400	7300	5300	4600	3500	3100	1700	5100	8500	2100	2000	5700	3800
27000	9500	7300	5300	4600	3600	3200	1700	5100	8600	2100	2000	5700	3800
28000	9500	7400	5300	4700	3600	3200	1800	5100	8600	2100	2000	5800	3800
29000	9500	7400	5400	4700	3600	3200	1800	5100	8600	2200	2000	5800	3900
30000	9600	7500	5400	4700	3700	3300	1800	5200	8600	2200	2000	5800	3900
31000	9600	7500	5500	4800	3700	3300	1800	5200	8600	2200	2100	5800	3900
32000	9600	7500	5500	4800	3700	3300	1800	5200	8700	2200	2100	5800	3900
33000	9700	7600	5500	4800	3800	3400	1900	5200	8700	2200	2100	5900	3900
34000	9700	7600	5600	4900	3800	3400	1900	5200	8700	2300	2100	5900	3900
35000	9700	7600	5600	4900	3800	3400	1900	5200	8700	2300	2100	5900	4000
36000	9800	7700	5600	5000	3900	3500	1900	5300	8700	2300	2200	5900	4000
37000	9800	7700	5700	5000	3900	3500	1900	5300	8700	2300	2200	5900	4000
38000	9800	7700	5700	5000	3900	3500	1900	5300	8800	2300	2200	6000	4000
39000	9900	7800	5700	5100	4000	3600	2000	5300	8800	2300	2200	6000	4000
40000	9900	7800	5800	5100	4000	3600	2000	5300	8800	2400	2200	6000	4100

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
53	79	67	98

FREE FLIGHT ROCKET 50.0 KT

MODERATE DAMAGE TO WHEELED VEHICLES SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	400	900	1400	1900	2400	2900	3400	3900					
5000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	128	70	-0	-0
6000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	154	84	-0	-0
7000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	180	98	-0	-0
8000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	205	112	-0	-0
9000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	231	127	-0	-0
10000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	257	141	-0	-0
11000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	283	155	-0	-0
12000	.9/.9	.9/.9	.9/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	308	169	-0	-0
13000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	334	183	-0	-0
14000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	360	197	-0	-0
15000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	385	211	-0	-0
16000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	411	225	-0	-0
17000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	437	239	-0	-0
18000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	463	254	-0	-0
19000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	488	268	-0	-0
20000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	514	282	-0	-0
21000	.9/.9	.9/.9	.8/.9	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	540	296	-0	-0
22000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	566	310	-0	-0
23000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	591	324	-0	-0
24000	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	617	338	-0	-0
25000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	643	352	-0	-0
26000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	668	367	-0	-0
27000	.9/.9	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	694	381	-0	-0
28000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	720	395	-0	-0
29000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	746	409	-0	-0
30000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	771	423	-0	-0
31000	.9/.9	.9/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	797	437	-0	-0
32000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	823	451	-0	-0
33000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	849	465	-0	-0
34000	.9/.9	.8/.9	.7/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	874	479	-0	-0
35000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	900	494	-0	-0
36000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	926	508	-0	-0
37000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	951	522	-0	-0
38000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	977	536	-0	-0
39000	.9/.9	.7/.9	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	1003	550	-0	-0
40000	.9/.9	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	1489	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 100.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	12300	9100	6200	5200	3800	3200	1700	5900	10200	2100	2000	7400	4700
6000	12300	9100	6300	5300	3800	3200	1700	5900	10200	2100	2000	7400	4700
7000	12400	9200	6300	5300	3800	3300	1700	5900	10300	2100	2100	7400	4700
8000	12400	9200	6300	5300	3900	3300	1700	5900	10300	2200	2100	7400	4700
9000	12400	9200	6400	5400	3900	3300	1700	5900	10300	2200	2100	7500	4800
10000	12500	9300	6400	5400	3900	3400	1800	6000	10300	2200	2100	7500	4800
11000	12500	9300	6400	5400	4000	3400	1800	6000	10300	2200	2100	7500	4800
12000	12500	9300	6500	5500	4000	3400	1800	6000	10400	2200	2200	7500	4800
13000	12600	9400	6500	5500	4000	3500	1800	6000	10400	2300	2200	7500	4800
14000	12600	9400	6500	5600	4100	3500	1800	6000	10400	2300	2200	7600	4900
15000	12700	9400	6600	5600	4100	3500	1900	6000	10400	2300	2200	7600	4900
16000	12700	9500	6600	5600	4200	3600	1900	6100	10400	2300	2200	7600	4900
17000	12700	9500	6600	5700	4200	3600	1900	6100	10400	2300	2200	7600	4900
18000	12800	9500	6700	5700	4200	3600	1900	6100	10500	2300	2300	7600	4900
19000	12800	9600	6700	5700	4300	3700	1900	6100	10500	2400	2300	7600	4900
20000	12800	9600	6700	5800	4300	3700	1900	6100	10500	2400	2300	7700	5000
21000	12900	9600	6800	5800	4300	3800	2000	6200	10500	2400	2300	7700	5000
22000	12900	9700	6800	5800	4400	3800	2000	6200	10500	2400	2300	7700	5000
23000	12900	9700	6800	5900	4400	3800	2000	6200	10600	2400	2400	7700	5000
24000	13000	9700	6900	5900	4400	3900	2000	6200	10600	2500	2400	7700	5000
25000	13000	9800	6900	5900	4500	3900	2000	6200	10600	2500	2400	7800	5100
26000	13000	9800	7000	6000	4500	3900	2100	6300	10600	2500	2400	7800	5100
27000	13100	9900	7000	6000	4500	4000	2100	6300	10600	2500	2400	7800	5100
28000	13100	9900	7000	6000	4600	4000	2100	6300	10700	2500	2500	7800	5100
29000	13100	9900	7100	6100	4600	4000	2100	6300	10700	2600	2500	7800	5100
30000	13200	10000	7100	6100	4600	4100	2100	6300	10700	2600	2500	7900	5200
31000	13200	10000	7100	6100	4700	4100	2200	6400	10700	2600	2500	7900	5200
32000	13200	10000	7200	6200	4700	4100	2200	6400	10700	2600	2500	7900	5200
33000	13300	10100	7200	6200	4700	4200	2200	6400	10700	2600	2600	7900	5200
34000	13300	10100	7200	6300	4800	4200	2200	6400	10800	2700	2600	7900	5200
35000	13400	10100	7300	6300	4800	4200	2200	6400	10800	2700	2600	8000	5300
36000	13400	10200	7300	6300	4900	4300	2300	6400	10800	2700	2600	8000	5300
37000	13400	10200	7300	6400	4900	4300	2300	6500	10800	2700	2600	8000	5300
38000	13500	10200	7400	6400	4900	4300	2300	6500	10800	2700	2600	8000	5300
39000	13500	10300	7400	6400	5000	4400	2300	6500	10900	2700	2700	8000	5300
40000	13500	10300	7400	6500	5000	4400	2300	6500	10900	2800	2700	8000	5300

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
65	96	82	120

FREE FLIGHT ROCKET
100.0 KT

MODERATE DAMAGE TO WHEELED VEHICLES
SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	1200	1800	2400	3000	3600	4200	4800	5400					
5000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	128	70	-0	-0
6000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	154	84	-0	-0
7000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	180	98	-0	-0
8000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	205	112	-0	-0
9000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	231	127	-0	-0
10000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	257	141	-0	-0
11000	.5/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	283	155	-0	-0
12000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	308	169	-0	-0
13000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	334	183	-0	-0
14000	.5/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	360	197	-0	-0
15000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	385	211	-0	-0
16000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	411	225	-0	-0
17000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	437	239	-0	-0
18000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	463	254	-0	-0
19000	.9/.9	.9/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	488	268	-0	-0
20000	.9/.9	.8/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	514	282	-0	-0
21000	.9/.9	.8/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	540	296	-0	-0
22000	.9/.9	.8/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	566	310	-0	-0
23000	.9/.9	.8/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	591	324	-0	-0
24000	.9/.9	.8/.9	.7/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	617	338	-0	-0
25000	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	643	352	-0	-0
26000	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	668	367	-0	-0
27000	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	694	381	-0	-0
28000	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	720	395	-0	-0
29000	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	746	409	-0	-0
30000	.9/.9	.8/.9	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	771	423	-0	-0
31000	.9/.9	.8/.8	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	797	437	-0	-0
32000	.9/.9	.8/.8	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	823	451	-0	-0
33000	.9/.9	.8/.8	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	849	465	-0	-0
34000	.9/.9	.8/.8	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	874	479	-0	-0
35000	.9/.9	.7/.8	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	900	494	-0	-0
36000	.9/.9	.7/.8	.6/.7	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	926	508	-0	-0
37000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	951	522	-0	-0
38000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	977	536	-0	-0
39000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	1003	550	-0	-0
40000	.9/.9	.7/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1	1965	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

LIGHT GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2 KT	2200	1700	2200	1700	1900	1400	500	1500	2500	500	500	1000	700
5 KT	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1500	1000
10 KT	3600	2900	2600	2100	2300	1800	800	2700	4600	1000	900	2300	1500
20 KT	5500	4300	3000	2600	2500	2000	1000	3500	6000	1300	1200	3500	2200

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
2 KT	18	4	23	5
5 KT	24	5	30	6
10 KT	32	7	40	8
20 KT	41	15	51	19

LIGHT GUIDED MISSILE

MODERATE DAMAGE TO WHEELED VEHICLES SURFACE BURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
2 KT	100	200	300	400	500	600	700	800	349	182	100	-0	-0
	.9/.9	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2					
5 KT	500	600	700	800	900	1000	1100	1200	504	182	100	-0	-0
	.8/.8	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2					
10 KT	400	600	800	1000	1200	1400	1600	1800	727	182	100	-0	-0
	.9/.9	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.2/.2	.2/.2					
20 KT	1000	1200	1400	1600	1800	2000	2200	2400	1032	182	100	-0	-0
	.9/.9	.7/.7	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2					

Range span 10,000 - 50,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

MEDIUM GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
10 KT	4400	3700	3400	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
20 KT	6300	5100	3800	3400	3300	2800	1400	3900	6500	1700	1600	3900	2700
50 KT	9500	7400	5400	4700	3600	3200	1800	5100	8600	2200	2000	5800	3800
100 KT	13100	9900	7000	6100	4600	4000	2100	6300	10700	2600	2500	7800	5100
200 KT	18300	13300	9300	8000	6000	5100	2500	7800	13300	3100	3100	10700	6900

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
10 KT	32	11	40	14
20 KT	41	15	51	19
50 KT	53	19	67	24
100 KT	65	24	82	30
200 KT	80	29	100	36

MEDIUM GUIDED MISSILE

MODERATE DAMAGE TO WHEELED VEHICLES SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									PROB. MIN. RD	ACCURACY DATA			
YIELD	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
10 KT	300 .2/.7	500 .2/.6	700 .3/.6	900 .3/.5	1100 .3/.4	1300 .2/.3	1500 .2/.2	1700 .2/.2	727	911	500	-0	-0
20 KT	200 .7/.9	600 .6/.8	1000 .5/.7	1200 .4/.6	1400 .4/.5	1800 .3/.3	2400 .2/.2	3000 .1/.1	1032	911	500	-0	-0
50 KT	800 .8/.9	1200 .7/.8	1600 .6/.7	2000 .5/.6	2400 .4/.4	2800 .3/.3	3200 .2/.2	3600 .2/.2	1489	911	500	-0	-0
100 KT	1200 .9/.9	1800 .7/.8	2400 .6/.7	3000 .4/.4	3600 .3/.3	4200 .2/.2	4800 .2/.2	5400 .1/.1	1965	911	500	-0	-0
200 KT	800 .9/.9	1200 .9/.9	2800 .9/.9	2800 .7/.8	3600 .5/.5	4400 .4/.4	5200 .3/.3	6000 .2/.2	2593	911	500	-0	-0

Range span 50,000 - 150,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

HEAVY GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
200 KT	19300	14300	10300	9000	7000	6100	3100	8300	13800	3700	3600	11200	7500
500 KT	29600	20900	14800	12600	9600	8300	3900	10900	18400	4700	4600	16700	10900
1000 KT	41200	28000	19600	16700	12500	10700	4600	13400	22800	5700	5500	22800	14700
2000 KT	45900	30800	21600	18300	13600	11700	4900	14400	24500	6200	5800	25200	16200
5000 KT	64200	41400	29000	24800	18000	15400	5900	17800	30600	7800	7100	34400	22000

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
200 KT	80	58	100	73
500 KT	104	76	130	95
1000 KT	127	93	159	117
2000 KT	135	99	169	124
5000 KT	165	121	207	152

HEAVY GUIDED MISSILE

MODERATE DAMAGE TO WHEELED VEHICLES SURFACE BURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
200 KT	1400	2000	2600	3200	3800	4400	5000	5600	2593	1822	1000	-0	-0
	.8/.9	.6/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2					
500 KT	2000	3000	4000	5000	6000	7000	8000	9000	3741	1822	1000	-0	-0
	.9/.9	.8/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2					
1000 KT	4000	6000	7000	8000	9000	10000	11000	13000	4936	1822	1000	-0	-0
	.9/.9	.6/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2					
2000 KT	4000	5200	6400	7600	8800	10000	11200	12400	5397	1822	1000	-0	-0
	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2					
5000 KT	8800	10000	11200	12400	13600	14800	16000	17200	7112	1822	1000	-0	-0
	.7/.7	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2	.2/.2					

Range span 50,000 - 300,000 meters

52

A FALLOUT PREDICTION SHOULD BE MADE

AIRCRAFT DELIVERED WEAPONS

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5 KT	2700	2200	2700	2200	2400	1900	700	2200	3600	900	800	1700	1200
10 KT	3900	3200	2900	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
20 KT	5800	4600	3300	2900	2800	2300	1200	3700	6200	1500	1300	3600	2400
50 KT	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1800	5500	3600
100 KT	12600	9400	6500	5600	4100	3500	1800	6000	10400	2300	2200	7600	4900
200 KT	17800	12800	8800	7500	5500	4600	2300	7500	13000	2800	2800	10400	6600
500 KT	28100	19400	13300	11100	8100	6800	3000	10100	17500	3900	3800	15900	10100
1000 KT	39700	26500	18100	15200	11000	9200	3800	12600	22000	4900	4700	22000	13900
2000 KT	44400	29300	20100	16800	12100	10200	4100	13600	23700	5400	5000	24400	15400
5000 KT	62700	39900	27500	23100	16500	13900	5100	17000	29700	7000	6300	33600	21200

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
5 KT	24	9	30	11
10 KT	32	11	40	14
20 KT	41	15	51	19
50 KT	53	19	67	24
100 KT	65	24	82	30
200 KT	80	29	100	36
500 KT	104	38	130	47
1000 KT	127	46	159	58
2000 KT	135	99	169	124
5000 KT	165	121	207	152

AIRCRAFT DELIVERED WEAPONS

MODERATE DAMAGE TO WHEELED VEHICLES SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS

ACCURACY DATA

YIELD	RADIUS OF TARGET								PROB. MIN. RD	ACCURACY DATA			
	200	300	400	500	600	700	800	900		CD 90	CEP	HOB	PEH
5 KT	.6/.9	.5/.8	.5/.7	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	504	455	250	-0	-0
10 KT	200 .9/.9	400 .8/.9	600 .7/.8	800 .6/.7	1000 .5/.5	1200 .4/.4	1400 .3/.3	1600 .2/.2	727	455	250	-0	-0
20 KT	300 .9/.9	600 .9/.9	900 .8/.9	1200 .6/.7	1500 .5/.5	1800 .3/.3	2100 .3/.3	2400 .2/.2	1032	455	250	-0	-0
50 KT	400 .9/.9	900 .9/.9	1400 .8/.9	1900 .6/.6	2400 .4/.4	2900 .3/.3	3400 .2/.2	3900 .2/.2	1489	455	250	-0	-0
100 KT	1200 .9/.9	1800 .9/.9	2400 .7/.7	3000 .4/.4	3600 .3/.3	4200 .2/.2	4800 .2/.2	5400 .1/.1	1965	455	250	-0	-0
200 KT	1400 .9/.9	2000 .9/.9	2600 .8/.9	3200 .7/.7	3800 .5/.5	4400 .4/.4	5000 .3/.3	5600 .2/.2	2593	455	250	-0	-0
500 KT	2800 .9/.9	3600 .9/.9	4400 .7/.7	5200 .5/.5	6000 .4/.4	6800 .3/.3	7600 .3/.3	8400 .2/.2	3741	455	250	-0	-0
1000 KT	4000 .9/.9	6000 .7/.7	7000 .5/.5	8000 .4/.4	9000 .3/.3	10000 .3/.3	11000 .2/.2	13000 .2/.2	4936	455	250	-0	-0
2000 KT	4000 .9/.9	6000 .3/.8	8000 .5/.5	10000 .3/.3	11000 .3/.3	13000 .2/.2	15000 .1/.1	17000 .1/.1	5397	455	250	-0	-0
5000 KT	7000 .9/.9	9000 .5/.6	11000 .4/.4	13000 .3/.3	15000 .2/.2	17000 .2/.2	19000 .1/.1	21000 .1/.1	7112	455	250	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

CHAPTER 16
 COVERAGE TABLES FOR
 SURFACE BURST

DDW

MODERATE DAMAGE TO TANKS - SEVERE DAMAGE TO ARTILLERY

	Page
Free Flight Rocket 5.0 KT.....	303
10.0 KT.....	305
50.0 KT.....	307
100.0 KT.....	309
Light Guided Missile 2, 5, 10, and 20 KT.....	311
Medium Guided Missile 10, 20, 50, 100, and 200 KT.....	313
Heavy Guided Missile 200, 500, 1,000, 2,000, and 5,000 KT.....	315
Aircraft Delivered Weapons 5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, and 5,000 KT....	317

TABLES OF MAXIMUM TARGET RADIUS (.3 Probable Minimum Coverage)

(Distances in Meters)

SURFACE BURST

MODERATE DAMAGE TO TANKS & SEVERE DAMAGE TO ARTILLERY

Range	Free Flight Rocket			
	5	10	50	100
5000	450	700	1400	1800
6000	450	700	1400	1800
7000	450	700	1400	1800
8000	450	700	1400	1800
9000	450	700	1400	1800
10000	450	700	1400	1800
12000	400	700	1400	1800
14000		700	1400	1800
16000		600	1400	1800
18000		500	1400	1800
20000			1400	1800
22000			1400	1800
24000			1400	1800
26000			1400	1800
28000			1400	1800
30000			1400	1800
32000			1400	1800
34000			1400	1800
36000			1400	1800
38000				1800
40000				1800

Light Guided Missile			
2	5	10	20
300	450	700	1000

Medium Guided Missile				
10	20	50	100	200
		1000	1600	2400

Heavy Guided Missile				
200	500	1000	2000	5000
	3500	4500	4800	6400

Aircraft Delivered Weapons									
5	10	20	50	100	200	500	1000	2000	5000
	550	1000	1400	1800	2400	3600	4800	5000	7000

NOTE: Blank spaces indicate either the target is out of range or a probable minimum coverage of .3 cannot be obtained.

FREE FLIGHT ROCKET 5.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	2400	1900	2400	1800	2000	1600	600	2000	3400	700	700	1500	1000
6000	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1500	1000
7000	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1600	1000
8000	2500	2000	2500	2000	2100	1700	600	2000	3400	700	700	1600	1100
9000	2500	2000	2500	2000	2200	1700	600	2100	3500	800	700	1600	1100
10000	2600	2000	2600	2000	2200	1700	700	2100	3500	800	700	1600	1100
11000	2600	2100	2600	2100	2200	1800	700	2100	3500	800	800	1600	1100
12000	2600	2100	2600	2100	2300	1800	700	2100	3500	800	800	1700	1100
13000	2700	2100	2700	2100	2300	1800	700	2100	3500	800	800	1700	1200
14000	2700	2200	2700	2200	2300	1900	700	2200	3600	900	800	1700	1200
15000	2700	2200	2700	2200	2400	1900	800	2200	3600	900	800	1700	1200
16000	2800	2200	2800	2200	2400	1900	800	2200	3600	900	900	1700	1200
17000	2800	2300	2800	2300	2500	2000	800	2200	3600	900	900	1800	1200
18000	2800	2300	2800	2300	2500	2000	800	2200	3600	900	900	1800	1300
19000	2900	2300	2900	2300	2500	2100	800	2200	3700	900	900	1800	1300
20000	2900	2400	2900	2400	2600	2100	900	2300	3700	1000	900	1800	1300
21000	2900	2400	2900	2400	2600	2100	900	2300	3700	1000	1000	1800	1300
22000	3000	2400	3000	2400	2600	2200	900	2300	3700	1000	1000	1800	1300
23000	3000	2500	3000	2500	2700	2200	900	2300	3700	1000	1000	1900	1400
24000	3000	2500	3000	2500	2700	2200	900	2300	3700	1000	1000	1900	1400
25000	3100	2600	3100	2500	2700	2300	900	2400	3800	1100	1000	1900	1400
26000	3100	2600	3100	2600	2800	2300	1000	2400	3800	1100	1100	1900	1400
27000	3100	2600	3100	2600	2800	2300	1000	2400	3800	1100	1100	1900	1400
28000	3200	2700	3200	2700	2800	2400	1000	2400	3800	1100	1100	2000	1400
29000	3200	2700	3200	2700	2900	2400	1000	2400	3800	1100	1100	2000	1500
30000	3300	2700	3300	2700	2900	2400	1000	2500	3900	1200	1100	2000	1500
31000	3300	2800	3300	2800	2900	2500	1100	2500	3900	1200	1100	2000	1500
32000	3300	2800	3300	2800	3000	2500	1100	2500	3900	1200	1200	2000	1500
33000	3400	2800	3400	2800	3000	2500	1100	2500	3900	1200	1200	2100	1500
34000	3400	2900	3400	2900	3000	2600	1100	2500	3900	1200	1200	2100	1600
35000	3400	2900	3400	2900	3100	2600	1100	2600	4000	1200	1200	2100	1600
36000	3500	2900	3500	2900	3100	2600	1200	2600	4000	1300	1200	2100	1600
37000	3500	3000	3500	3000	3200	2700	1200	2600	4000	1300	1300	2100	1600
38000	3500	3000	3500	3000	3200	2700	1200	2600	4000	1300	1300	2200	1600
39000	3600	3000	3600	3000	3200	2800	1200	2600	4000	1300	1300	2200	1700
40000	3600	3100	3600	3100	3300	2800	1200	2600	4100	1300	1300	2200	1700

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH

24. 36 30 45

FREE FLIGHT ROCKET 5.0 KT

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS									ACCURACY DATA			
	RADIUS OF TARGET									PROB. MIN. RD	CD 90	CEP	HOB PEH
	150	200	250	300	350	400	450	500					
5000	.9/.9	.8/.9	.6/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	244	128	70	-0	-0
6000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	244	154	84	-0	-0
7000	.7/.9	.6/.8	.5/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	244	180	98	-0	-0
8000	.6/.8	.5/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	244	205	112	-0	-0
9000	.5/.8	.4/.7	.4/.6	.4/.5	.4/.5	.3/.4	.3/.3	.2/.2	244	231	127	-0	-0
10000	.4/.7	.4/.7	.4/.6	.3/.5	.3/.4	.3/.4	.3/.3	.2/.2	244	257	141	-0	-0
11000	.3/.7	.3/.6	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	244	283	155	-0	-0
12000	.2/.7	.3/.6	.3/.5	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	244	308	169	-0	-0
13000	.1/.6	.2/.6	.2/.5	.2/.4	.2/.4	.2/.3	.2/.3	.2/.2	244	334	183	-0	-0
14000	.1/.6	.1/.5	.2/.5	.2/.4	.2/.4	.2/.3	.2/.3	.2/.2	244	360	197	-0	-0
15000	.0/.5	.1/.5	.1/.4	.2/.4	.2/.4	.2/.3	.2/.3	.2/.2	244	385	211	-0	-0
16000	.0/.5	.1/.5	.1/.4	.1/.4	.1/.3	.2/.3	.2/.3	.2/.2	244	411	225	-0	-0
17000	.0/.5	.0/.4	.1/.4	.1/.4	.1/.3	.1/.3	.1/.3	.1/.2	244	437	239	-0	-0
18000	.0/.4	.0/.4	.0/.4	.1/.3	.1/.3	.1/.3	.1/.2	.1/.2	244	463	254	-0	-0
19000	.0/.4	.0/.4	.0/.4	.0/.3	.1/.3	.1/.3	.1/.2	.1/.2	244	488	268	-0	-0
20000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.3	.1/.3	.1/.2	.1/.2	244	514	282	-0	-0
21000	.0/.4	.0/.3	.0/.3	.0/.3	.0/.3	.1/.2	.1/.2	.1/.2	244	540	296	-0	-0
22000	.0/.3	.0/.3	.0/.3	.0/.3	.0/.3	.0/.2	.1/.2	.1/.2	244	566	310	-0	-0
23000	.0/.3	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.1/.2	244	591	324	-0	-0
24000	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	244	617	338	-0	-0
25000	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	244	643	352	-0	-0
26000	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	244	668	367	-0	-0
27000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	244	694	381	-0	-0
28000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	244	720	395	-0	-0
29000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	244	746	409	-0	-0
30000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	244	771	423	-0	-0
31000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	244	797	437	-0	-0
32000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	244	823	451	-0	-0
33000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	244	849	465	-0	-0
34000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	244	874	479	-0	-0
35000	.0/.2	.0/.2	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	244	900	494	-0	-0
36000	.0/.2	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	244	926	508	-0	-0
37000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	244	951	522	-0	-0
38000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	244	977	536	-0	-0
39000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	244	1003	550	-0	-0
40000	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	.0/.1	244	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 10.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
5000	3600	2800	2600	2000	2200	1700	800	2600	4500	900	800	2300	1500
6000	3600	2900	2600	2100	2300	1800	800	2700	4600	1000	900	2300	1500
7000	3600	2900	2700	2100	2300	1800	800	2700	4600	1000	900	2400	1500
8000	3700	3000	2700	2200	2300	1800	800	2700	4600	1000	900	2400	1600
9000	3700	3000	2700	2200	2400	1900	800	2700	4600	1000	900	2400	1600
10000	3800	3000	2800	2200	2400	1900	800	2700	4600	1000	900	2400	1600
11000	3800	3100	2800	2300	2500	2000	900	2800	4700	1100	1000	2400	1600
12000	3800	3100	2900	2300	2500	2000	900	2800	4700	1100	1000	2400	1600
13000	3900	3100	2900	2300	2500	2000	900	2800	4700	1100	1000	2500	1700
14000	3900	3200	2900	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
15000	3900	3200	3000	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
16000	4000	3200	3000	2400	2600	2100	1000	2800	4800	1100	1100	2500	1700
17000	4000	3300	3000	2500	2700	2200	1000	2900	4800	1200	1100	2500	1700
18000	4000	3300	3100	2500	2700	2200	1000	2900	4800	1200	1100	2600	1800
19000	4100	3300	3100	2500	2700	2200	1000	2900	4800	1200	1100	2600	1800
20000	4100	3400	3100	2600	2800	2300	1000	2900	4800	1200	1100	2600	1800
21000	4100	3400	3200	2600	2800	2300	1100	2900	4800	1200	1200	2600	1800
22000	4200	3400	3200	2600	2800	2300	1100	3000	4900	1300	1200	2600	1800
23000	4200	3500	3200	2700	2900	2400	1100	3000	4900	1300	1200	2700	1800
24000	4200	3500	3300	2700	2900	2400	1100	3000	4900	1300	1200	2700	1900
25000	4300	3500	3300	2700	2900	2400	1100	3000	4900	1300	1200	2700	1900
26000	4300	3600	3300	2800	3000	2500	1200	3000	4900	1300	1200	2700	1900
27000	4300	3600	3400	2800	3000	2500	1200	3100	5000	1400	1300	2700	1900
28000	4400	3700	3400	2900	3000	2500	1200	3100	5000	1400	1300	2800	1900
29000	4400	3700	3400	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
30000	4500	3700	3500	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
31000	4500	3800	3500	3000	3200	2700	1200	3100	5000	1400	1300	2800	2000
32000	4500	3800	3600	3000	3200	2700	1300	3200	5100	1500	1400	2800	2000
33000	4600	3800	3600	3000	3200	2700	1300	3200	5100	1500	1400	2800	2000
34000	4600	3900	3600	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
35000	4600	3900	3700	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
36000	4700	3900	3700	3100	3300	2800	1300	3200	5100	1500	1400	2900	2100
37000	4700	4000	3700	3200	3400	2900	1400	3200	5200	1500	1500	2900	2100
38000	4700	4000	3800	3200	3400	2900	1400	3300	5200	1600	1500	2900	2100
39000	4800	4000	3800	3200	3400	2900	1400	3300	5200	1600	1500	3000	2200
40000	4800	4100	3800	3300	3500	3000	1400	3300	5200	1600	1500	3000	2200

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RADIUS	DEPTH	RADIUS	DEPTH
32	47	40	59

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
SURFACE BURST

FREE FLIGHT ROCKET
10.0 KT

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
RANGE	RADIUS OF TARGET								PROB.	CD 90	CEP	HOB	PEH
									MIN. RD				
	100	200	300	400	500	600	700	800					
5000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	352	128	70	-0	-0
6000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	352	154	84	-0	-0
7000	.9/.9	.9/.9	.7/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	352	180	98	-0	-0
8000	.9/.9	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	352	205	112	-0	-0
9000	.9/.9	.8/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	352	231	127	-0	-0
10000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	352	257	141	-0	-0
11000	.8/.9	.6/.9	.5/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	352	283	155	-0	-0
12000	.7/.9	.6/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	352	308	169	-0	-0
13000	.6/.9	.5/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	352	334	183	-0	-0
14000	.4/.8	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.2	352	360	197	-0	-0
15000	.3/.8	.4/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	352	385	211	-0	-0
16000	.2/.8	.3/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	352	411	225	-0	-0
17000	.2/.7	.2/.7	.3/.6	.3/.5	.3/.4	.2/.3	.2/.3	.2/.2	352	437	239	-0	-0
18000	.1/.7	.2/.6	.2/.6	.2/.5	.3/.4	.2/.3	.2/.3	.2/.2	352	463	254	-0	-0
19000	.1/.7	.1/.6	.2/.5	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	352	488	268	-0	-0
20000	.0/.6	.1/.6	.1/.5	.2/.4	.2/.4	.2/.3	.2/.3	.2/.2	352	514	282	-0	-0
21000	.0/.6	.1/.6	.1/.5	.2/.4	.2/.4	.2/.3	.2/.2	.2/.2	352	540	296	-0	-0
22000	.0/.6	.0/.5	.1/.5	.1/.4	.2/.4	.2/.3	.2/.2	.2/.2	352	566	310	-0	-0
23000	.0/.5	.0/.5	.1/.5	.1/.4	.1/.3	.2/.3	.2/.2	.2/.2	352	591	324	-0	-0
24000	.0/.5	.0/.5	.0/.4	.1/.4	.1/.3	.1/.3	.2/.2	.2/.2	352	617	338	-0	-0
25000	.0/.5	.0/.5	.0/.4	.1/.4	.1/.3	.1/.3	.1/.2	.1/.2	352	643	352	-0	-0
26000	.0/.5	.0/.4	.0/.4	.1/.4	.1/.3	.1/.3	.1/.2	.1/.2	352	668	367	-0	-0
27000	.0/.4	.0/.4	.0/.4	.0/.3	.1/.3	.1/.3	.1/.2	.1/.2	352	694	381	-0	-0
28000	.0/.4	.0/.4	.0/.4	.0/.3	.1/.3	.1/.3	.1/.2	.1/.2	352	720	395	-0	-0
29000	.0/.4	.0/.4	.0/.4	.0/.3	.0/.3	.1/.2	.1/.2	.1/.2	352	746	409	-0	-0
30000	.0/.4	.0/.4	.0/.3	.0/.3	.0/.3	.1/.2	.1/.2	.1/.2	352	771	423	-0	-0
31000	.0/.4	.0/.3	.0/.3	.0/.3	.0/.3	.1/.2	.1/.2	.1/.2	352	797	437	-0	-0
32000	.0/.3	.0/.3	.0/.3	.0/.3	.0/.3	.0/.2	.1/.2	.1/.2	352	823	451	-0	-0
33000	.0/.3	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.1/.2	.1/.2	352	849	465	-0	-0
34000	.0/.3	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.1/.2	352	874	479	-0	-0
35000	.0/.3	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.1/.2	352	900	494	-0	-0
36000	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.1/.2	352	926	508	-0	-0
37000	.0/.3	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	352	951	522	-0	-0
38000	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	352	977	536	-0	-0
39000	.0/.3	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	352	1003	550	-0	-0
40000	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.2	.0/.1	352	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 50.0 KT

SAFETY DISTANCE TABLE

(Distances in meters)

RANGE	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	8700	6600	4500	3900	2800	2400	1300	4700	8100	1700	1600	5300	3400
6000	8700	6600	4600	3900	2800	2400	1300	4700	8200	1700	1600	5300	3400
7000	8800	6600	4600	3900	2900	2500	1400	4700	8200	1700	1600	5400	3400
8000	8800	6700	4600	4000	2900	2500	1400	4700	8200	1800	1600	5400	3500
9000	8800	6700	4700	4000	2900	2500	1400	4800	8200	1800	1700	5400	3500
10000	8900	6800	4700	4000	3000	2600	1400	4800	8200	1800	1700	5400	3500
11000	8900	6800	4800	4100	3000	2600	1400	4800	8300	1800	1700	5400	3500
12000	8900	6800	4800	4100	3000	2600	1500	4800	8300	1800	1700	5500	3500
13000	9000	6900	4800	4100	3100	2700	1500	4800	8300	1900	1700	5500	3500
14000	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1700	5500	3600
15000	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1800	5500	3600
16000	9100	7000	4900	4300	3200	2800	1500	4900	8300	1900	1800	5500	3600
17000	9100	7000	5000	4300	3200	2800	1600	4900	8400	1900	1800	5600	3600
18000	9100	7000	5000	4300	3200	2800	1600	4900	8400	1900	1800	5600	3600
19000	9200	7100	5000	4400	3300	2900	1600	4900	8400	2000	1800	5600	3700
20000	9200	7100	5100	4400	3300	2900	1600	5000	8400	2000	1900	5600	3700
21000	9200	7100	5100	4400	3300	2900	1600	5000	8400	2000	1900	5600	3700
22000	9300	7200	5100	4500	3400	3000	1600	5000	8500	2000	1900	5700	3700
23000	9300	7200	5200	4500	3400	3000	1700	5000	8500	2000	1900	5700	3700
24000	9300	7200	5200	4500	3400	3000	1700	5000	8500	2100	1900	5700	3800
25000	9400	7300	5200	4600	3500	3100	1700	5100	8500	2100	2000	5700	3800
26000	9400	7300	5300	4600	3500	3100	1700	5100	8500	2100	2000	5700	3800
27000	9500	7300	5300	4600	3500	3200	1700	5100	8600	2100	2000	5700	3800
28000	9500	7400	5300	4700	3600	3200	1800	5100	8600	2100	2000	5800	3800
29000	9500	7400	5400	4700	3600	3200	1800	5100	8600	2200	2000	5800	3900
30000	9600	7500	5400	4700	3700	3300	1800	5200	8600	2200	2000	5800	3900
31000	9600	7500	5500	4800	3700	3300	1800	5200	8600	2200	2100	5800	3900
32000	9600	7500	5500	4800	3700	3300	1800	5200	8700	2200	2100	5800	3900
33000	9700	7600	5500	4800	3800	3400	1900	5200	8700	2200	2100	5900	3900
34000	9700	7600	5600	4900	3800	3400	1900	5200	8700	2300	2100	5900	3900
35000	9700	7600	5600	4900	3800	3400	1900	5200	8700	2300	2100	5900	4000
36000	9800	7700	5600	5000	3900	3500	1900	5300	8700	2300	2200	5900	4000
37000	9800	7700	5700	5000	3900	3500	1900	5300	8700	2300	2200	5900	4000
38000	9800	7700	5700	5000	3900	3500	1900	5300	8800	2300	2200	6000	4000
39000	9900	7800	5700	5100	4000	3600	2000	5300	8800	2300	2200	6000	4000
40000	9900	7800	5800	5100	4000	3600	2000	5300	8800	2400	2200	6000	4100

CRATER DIMENSIONS - METERS

HARD ROCK	DRY SOIL
RADIUS DEPTH	RADIUS DEPTH

53 79 67 98

FREE FLIGHT ROCKET
50.0 KT

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	200	400	600	800	1000	1200	1400	1600					
5000	.9/.9	.9/.9	.9/.9	.8/.8	.5/.5	.4/.4	.3/.3	.2/.2	721	128	70	-0	-0
6000	.9/.9	.9/.9	.9/.9	.8/.8	.5/.5	.4/.4	.3/.3	.2/.2	721	154	84	-0	-0
7000	.9/.9	.9/.9	.9/.9	.8/.8	.5/.5	.4/.4	.3/.3	.2/.2	721	180	98	-0	-0
8000	.9/.9	.9/.9	.9/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	721	205	112	-0	-0
9000	.9/.9	.9/.9	.9/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	721	231	127	-0	-0
10000	.9/.9	.9/.9	.8/.9	.7/.8	.5/.5	.4/.4	.3/.3	.2/.2	721	257	141	-0	-0
11000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	721	283	155	-0	-0
12000	.9/.9	.9/.9	.8/.9	.7/.7	.5/.5	.4/.4	.3/.3	.2/.2	721	308	169	-0	-0
13000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	721	334	183	-0	-0
14000	.9/.9	.9/.9	.8/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	721	360	197	-0	-0
15000	.9/.9	.9/.9	.7/.9	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	721	385	211	-0	-0
16000	.9/.9	.9/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	721	411	225	-0	-0
17000	.9/.9	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	721	437	239	-0	-0
18000	.9/.9	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	721	463	254	-0	-0
19000	.9/.9	.8/.9	.6/.8	.5/.7	.5/.5	.4/.4	.3/.3	.2/.2	721	488	268	-0	-0
20000	.9/.9	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	721	514	282	-0	-0
21000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	721	540	296	-0	-0
22000	.8/.9	.7/.9	.6/.8	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	721	566	310	-0	-0
23000	.7/.9	.6/.9	.5/.8	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	721	591	324	-0	-0
24000	.7/.9	.6/.8	.5/.7	.5/.6	.4/.5	.3/.4	.3/.3	.2/.2	721	617	338	-0	-0
25000	.6/.9	.6/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	721	643	352	-0	-0
26000	.6/.9	.5/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	721	668	367	-0	-0
27000	.5/.9	.5/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	721	694	381	-0	-0
28000	.5/.8	.5/.8	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.2	721	720	395	-0	-0
29000	.4/.8	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.2	721	746	409	-0	-0
30000	.4/.8	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.2	721	771	423	-0	-0
31000	.3/.8	.3/.7	.3/.7	.3/.6	.3/.5	.3/.4	.2/.3	.2/.2	721	797	437	-0	-0
32000	.3/.8	.3/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	721	823	451	-0	-0
33000	.2/.8	.3/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	721	849	465	-0	-0
34000	.2/.7	.2/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	721	874	479	-0	-0
35000	.1/.7	.2/.7	.3/.6	.3/.5	.3/.4	.3/.4	.2/.3	.2/.2	721	900	494	-0	-0
36000	.1/.7	.2/.7	.2/.6	.3/.5	.3/.4	.2/.3	.2/.3	.2/.2	721	926	508	-0	-0
37000	.1/.7	.2/.6	.2/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	721	951	522	-0	-0
38000	.1/.7	.1/.6	.2/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	721	977	536	-0	-0
39000	.1/.7	.1/.6	.2/.6	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	721	1003	550	-0	-0
40000	.0/.6	.1/.6	.2/.5	.2/.5	.2/.4	.2/.3	.2/.3	.2/.2	721	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

FREE FLIGHT ROCKET 100.0 KT

SAFETY DISTANCE TABLE (Distances in meters)

TROOP SAFETY							PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
RANGE	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
5000	12300	9100	6200	5200	3800	3200	1700	5900	10200	2100	2000	7400	4700
6000	12300	9100	6300	5300	3800	3200	1700	5900	10200	2100	2000	7400	4700
7000	12400	9200	6300	5300	3800	3300	1700	5900	10300	2100	2100	7400	4700
8000	12400	9200	6300	5300	3900	3300	1700	5900	10300	2200	2100	7400	4700
9000	12400	9200	6400	5400	3900	3300	1700	5900	10300	2200	2100	7500	4800
10000	12500	9300	6400	5400	3900	3400	1800	6000	10300	2200	2100	7500	4800
11000	12500	9300	6400	5400	4000	3400	1800	6000	10300	2200	2100	7500	4800
12000	12500	9300	6500	5500	4000	3400	1800	6000	10400	2200	2200	7500	4800
13000	12600	9400	6500	5500	4000	3500	1800	6000	10400	2300	2200	7500	4800
14000	12600	9400	6500	5600	4100	3500	1800	6000	10400	2300	2200	7600	4900
15000	12700	9400	6600	5600	4100	3500	1900	6000	10400	2300	2200	7600	4900
16000	12700	9500	6600	5600	4200	3600	1900	6100	10400	2300	2200	7600	4900
17000	12700	9500	6600	5700	4200	3600	1900	6100	10400	2300	2200	7600	4900
18000	12800	9500	6700	5700	4200	3600	1900	6100	10500	2300	2300	7600	4900
19000	12800	9600	6700	5700	4300	3700	1900	6100	10500	2400	2300	7600	4900
20000	12800	9600	6700	5800	4300	3700	1900	6100	10500	2400	2300	7700	5000
21000	12900	9600	6800	5800	4300	3800	2000	6200	10500	2400	2300	7700	5000
22000	12900	9700	6800	5800	4400	3800	2000	6200	10500	2400	2300	7700	5000
23000	12900	9700	6800	5900	4400	3800	2000	6200	10600	2400	2400	7700	5000
24000	13000	9700	6900	5900	4400	3900	2000	6200	10600	2500	2400	7700	5000
25000	13000	9800	6900	5900	4500	3900	2000	6200	10600	2500	2400	7800	5100
26000	13000	9800	7000	6000	4500	3900	2100	6300	10600	2500	2400	7800	5100
27000	13100	9900	7000	6000	4500	4000	2100	6300	10600	2500	2400	7800	5100
28000	13100	9900	7000	6000	4600	4000	2100	6300	10700	2500	2500	7800	5100
29000	13100	9900	7100	6100	4600	4000	2100	6300	10700	2600	2500	7800	5100
30000	13200	10000	7100	6100	4600	4100	2100	6300	10700	2600	2500	7900	5200
31000	13200	10000	7100	6100	4700	4100	2200	6400	10700	2600	2500	7900	5200
32000	13200	10000	7200	6200	4700	4100	2200	6400	10700	2600	2500	7900	5200
33000	13300	10100	7200	6200	4700	4200	2200	6400	10700	2600	2600	7900	5200
34000	13300	10100	7200	6300	4800	4200	2200	6400	10800	2700	2600	7900	5200
35000	13400	10100	7300	6300	4800	4200	2200	6400	10800	2700	2600	8000	5300
36000	13400	10200	7300	6300	4900	4300	2300	6400	10800	2700	2600	8000	5300
37000	13400	10200	7300	6400	4900	4300	2300	6500	10800	2700	2600	8000	5300
38000	13500	10200	7400	6400	4900	4300	2300	6500	10800	2700	2600	8000	5300
39000	13500	10300	7400	6400	5000	4400	2300	6500	10900	2700	2700	8000	5300
40000	13500	10300	7400	6500	5000	4400	2300	6500	10900	2800	2700	8000	5300

CRATER DIMENSIONS - METERS

HARD ROCK		DRY SOIL	
RAIUS	DEPTH	RAIUS	DEPTH
65	96	82	120

FREE FLIGHT ROCKET
100.0 KT

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
SURFACE BURST

COVERAGE TABLE

(Distances in meters)

RANGE	EFFECTIVENESS								PROB. MIN. RD	ACCURACY DATA			
	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
	600	800	1000	1200	1400	1600	1800	2000					
5000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	128	70	-0	-0
6000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	154	84	-0	-0
7000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	180	98	-0	-0
8000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	205	112	-0	-0
9000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	231	127	-0	-0
10000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	257	141	-0	-0
11000	.9/.9	.9/.9	.8/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	283	155	-0	-0
12000	.9/.9	.9/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	308	169	-0	-0
13000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	334	183	-0	-0
14000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	360	197	-0	-0
15000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	385	211	-0	-0
16000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	411	225	-0	-0
17000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	437	239	-0	-0
18000	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	463	254	-0	-0
19000	.9/.9	.8/.9	.6/.7	.5/.6	.5/.5	.4/.4	.3/.3	.2/.2	951	488	268	-0	-0
20000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	951	514	282	-0	-0
21000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	951	540	296	-0	-0
22000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	951	566	310	-0	-0
23000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	951	591	324	-0	-0
24000	.8/.9	.7/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	951	617	338	-0	-0
25000	.7/.9	.6/.8	.6/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	951	643	352	-0	-0
26000	.7/.9	.6/.8	.5/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	951	668	367	-0	-0
27000	.7/.9	.6/.8	.5/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	951	694	381	-0	-0
28000	.7/.9	.6/.8	.5/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2	951	720	395	-0	-0
29000	.6/.8	.6/.8	.5/.7	.4/.6	.4/.5	.3/.4	.3/.3	.2/.2	951	746	409	-0	-0
30000	.6/.8	.5/.8	.5/.6	.4/.5	.4/.5	.3/.4	.3/.3	.2/.2	951	771	423	-0	-0
31000	.6/.8	.5/.7	.5/.6	.4/.5	.4/.5	.3/.4	.3/.3	.2/.2	951	797	437	-0	-0
32000	.6/.8	.5/.7	.5/.6	.4/.5	.4/.5	.3/.4	.3/.3	.2/.2	951	823	451	-0	-0
33000	.5/.8	.5/.7	.4/.6	.4/.5	.4/.5	.3/.4	.3/.3	.2/.2	951	849	465	-0	-0
34000	.5/.8	.5/.7	.4/.6	.4/.5	.4/.5	.3/.4	.3/.3	.2/.2	951	874	479	-0	-0
35000	.5/.8	.4/.7	.4/.6	.4/.5	.4/.5	.3/.4	.3/.3	.2/.2	951	900	494	-0	-0
36000	.5/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.4	.3/.3	.2/.2	951	926	508	-0	-0
37000	.4/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.4	.3/.3	.2/.2	951	951	522	-0	-0
38000	.4/.8	.4/.7	.4/.6	.4/.5	.3/.4	.3/.4	.3/.3	.2/.2	951	977	536	-0	-0
39000	.4/.7	.4/.7	.4/.6	.3/.5	.3/.4	.3/.4	.3/.3	.2/.2	951	1003	550	-0	-0
40000	.4/.7	.4/.7	.4/.6	.3/.5	.3/.4	.3/.4	.3/.3	.2/.2	951	1029	564	-0	-0

A FALLOUT PREDICTION SHOULD BE MADE

LIGHT GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
2 KT	2200	1700	2200	1700	1900	1400	500	1500	2500	500	500	1000	700
5 KT	2400	1900	2400	1900	2100	1600	600	2000	3400	700	700	1500	1000
10 KT	3600	2900	2600	2100	2300	1800	800	2700	4600	1000	900	2300	1500
20 KT	5500	4300	3000	2600	2500	2000	1000	3500	6000	1300	1200	3500	2200

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
2 KT	18	4	23	5
5 KT	24	5	30	6
10 KT	32	7	40	8
20 KT	41	15	51	19

LIGHT GUIDED MISSILE

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									PROB. MIN. RD	ACCURACY DATA			
YIELD	RADIUS OF TARGET									CD 90	CEP	HOB	PEH
2 KT	50 .4/.8	100 .4/.7	150 .4/.6	200 .3/.5	250 .3/.4	300 .3/.3	350 .2/.2	400 .2/.2	169	182	100	-0	-0
5 KT	150 .7/.9	200 .6/.8	250 .5/.7	300 .5/.6	350 .4/.5	400 .4/.4	450 .3/.3	500 .2/.2	244	182	100	-0	-0
10 KT	200 .9/.9	300 .7/.9	400 .6/.7	500 .5/.5	600 .4/.4	700 .3/.3	800 .2/.2	900 .2/.2	352	182	100	-0	-0
20 KT	400 .9/.9	500 .7/.8	600 .6/.7	700 .5/.5	800 .4/.4	1000 .3/.3	1200 .2/.2	1300 .2/.2	499	182	100	-0	-0

Range span 10,000 - 50,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

MEDIUM GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
10 KT	4400	3700	3400	2900	3100	2600	1200	3100	5000	1400	1300	2800	2000
20 KT	6300	5100	3800	3400	3300	2800	1400	3900	6500	1700	1600	3900	2700
50 KT	9500	7400	5400	4700	3600	3200	1800	5100	8600	2200	2000	5800	3800
100 KT	13100	9900	7000	6100	4600	4000	2100	6300	10700	2600	2500	7800	5100
200 KT	18300	13300	9300	8000	6000	5100	2500	7800	13300	3100	3100	10700	6900

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
10 KT	32	11	40	14
20 KT	41	15	51	19
50 KT	53	19	67	24
100 KT	65	24	82	30
200 KT	80	29	100	36

MEDIUM GUIDED MISSILE

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
SURFACE BURST

COVERAGE TABLE

(Distances in meters)

YIELD		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
10 KT	100	200	300	400	500	600	700	800	352	911	500	-0	-0
	.0/.3	.0/.2	.0/.3	.0/.3	.0/.2	.0/.2	.0/.2	.1/.2					
20 KT	500	700	800	900	1000	1100	1200	1300	499	911	500	-0	-0
	.0/.4	.1/.3	.1/.3	.1/.3	.1/.2	.1/.2	.1/.2	.1/.2					
50 KT	400	600	800	1000	1200	1400	1600	1800	721	911	500	-0	-0
	.2/.7	.3/.6	.3/.5	.3/.4	.2/.3	.2/.3	.2/.2	.2/.2					
100 KT	600	800	1200	1600	2000	2400	2800	3200	951	911	500	-0	-0
	.5/.8	.4/.7	.4/.5	.3/.4	.2/.2	.2/.2	.1/.1	.1/.1					
200 KT	600	800	1200	1600	2000	2400	2800	3200	1255	911	500	-0	-0
	.8/.9	.7/.9	.6/.7	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2					

Range span 50,000 - 150,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

HEAVY GUIDED MISSILE

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDUOUS	CONIFEROUS	DRY FUEL	GREEN FUEL
200 KT	19300	14300	10300	9000	7000	6100	3100	8300	13800	3700	3600	11200	7500
500 KT	29600	20900	14800	12600	9600	8300	3900	10900	18400	4700	4600	16700	10900
1000 KT	41200	28000	19600	16700	12500	10700	4600	13400	22800	5700	5500	22800	14700
2000 KT	45900	30800	21600	18300	13600	11700	4900	14400	24500	6200	5800	25200	16200
5000 KT	64200	41400	29000	24800	18000	15400	5900	17800	30600	7800	7100	34400	22000

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
200 KT	80	58	100	73
500 KT	104	76	130	95
1000 KT	127	93	159	117
2000 KT	135	99	169	124
5000 KT	165	121	207	152

HEAVY GUIDED MISSILE

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
SURFACE BURST

COVERAGE TABLE

(Distances in meters)

		EFFECTIVENESS							PROB. MIN. RD	ACCURACY DATA			
YIELD		RADIUS OF TARGET								CD 90	CEP	HOB	PEH
200 KT	1000	1200	1400	1600	1800	2000	2200	2400	1255	1822	1000	-0	-0
	.1/.5	.2/.5	.2/.5	.2/.4	.2/.4	.2/.3	.2/.3	.2/.3					
500 KT	500	1000	1500	2000	2500	3000	3500	4000	1811	1822	1000	-0	-0
	.5/.8	.4/.8	.4/.7	.4/.6	.3/.5	.3/.4	.3/.3	.2/.2					
1000 KT	1500	2000	2500	3000	3500	4000	4500	5500	2390	1822	1000	-0	-0
	.7/.9	.2/.8	.5/.7	.5/.6	.4/.5	.4/.4	.3/.3	.2/.2					
2000 KT	2000	2400	3200	4000	4800	5600	6400	7200	2613	1822	1000	-0	-0
	.7/.8	.6/.8	.5/.6	.4/.4	.3/.3	.2/.2	.2/.2	.1/.1					
5000 KT	4000	4800	5600	6400	7200	8000	8800	9600	3443	1822	1000	-0	-0
	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2	.1/.1					

Range span 50,000 - 300,000 meters

A FALLOUT PREDICTION SHOULD BE MADE

AIRCRAFT DELIVERED WEAPONS

SAFETY DISTANCE TABLE

(Distances in meters)

YIELD	TROOP SAFETY						PRECLUDE DAMAGE			PRECLUDE OBSTACLES			
	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		MOD DAMAGE TO FIXED BRIDGES	LIGHT DAMAGE TO BUILDINGS	LIGHT A/C IN FLIGHT	TREE BLOWDOWN		FIRES	
	NEG	EMER	NEG	EMER	NEG	EMER				DECIDU- OUS	CONIFER- OUS	DRY FUEL	GREEN FUEL
5 KT	2700	2200	2700	2200	2400	1900	700	2200	3600	900	800	1700	1200
10 KT	3900	3200	2900	2400	2600	2100	900	2800	4700	1100	1000	2500	1700
20 KT	5800	4600	3300	2900	2800	2300	1200	3700	6200	1500	1300	3600	2400
50 KT	9000	6900	4900	4200	3100	2700	1500	4900	8300	1900	1800	5500	3600
100 KT	12600	9400	6500	5600	4100	3500	1800	6000	10400	2300	2200	7600	4900
200 KT	17800	12800	8800	7500	5500	4600	2300	7500	13000	2800	2800	10400	6600
500 KT	28100	19400	13300	11100	8100	6800	3000	10100	17500	3900	3800	15900	10100
1000 KT	39700	26500	18100	15200	11000	9200	3800	12600	22000	4900	4700	22000	13900
2000 KT	44400	29300	20100	16800	12100	10200	4100	13600	23700	5400	5000	24400	15400
5000 KT	62700	39900	27500	23100	16500	13900	5100	17000	29700	7000	6300	33600	21200

CRATER DIMENSIONS - METERS

YIELD	HARD ROCK		DRY SOIL	
	RADIUS	DEPTH	RADIUS	DEPTH
5 KT	24	9	30	11
10 KT	32	11	40	14
20 KT	41	15	51	19
50 KT	53	19	67	24
100 KT	65	24	82	30
200 KT	80	29	100	36
500 KT	104	38	130	47
1000 KT	127	46	159	58
2000 KT	135	99	169	124
5000 KT	165	121	207	152

AIRCRAFT DELIVERED WEAPONS

MODERATE DAMAGE TO TANKS
SEVERE DAMAGE TO ARTILLERY
SURFACE BURST

COVERAGE TABLE

(Distances in meters)

EFFECTIVENESS									ACCURACY DATA				
YIELD	RADIUS OF TARGET								PROB.	CD 90	CEP	HOB	PEH
									MIN. RD				
5 KT	100	150	200	250	300	350	400	450	244	455	250	-0	-0
	.0/.5	.0/.4	.0/.4	.0/.4	.1/.3	.1/.3	.1/.3	.1/.2					
10 KT	300	350	400	450	500	550	600	650	352	455	250	-0	-0
	.2/.6	.2/.5	.3/.5	.3/.4	.3/.4	.3/.4	.2/.3	.2/.3					
20 KT	200	400	600	800	1000	1200	1400	1600	499	455	250	-0	-0
	.6/.9	.5/.7	.4/.6	.8/.4	.3/.3	.2/.2	.1/.1	.1/.1					
50 KT	400	600	800	1000	1200	1400	1600	1800	721	455	250	-0	-0
	.8/.9	.7/.8	.6/.7	.5/.5	.4/.4	.3/.3	.2/.2	.2/.2					
100 KT	600	800	1000	1200	1400	1600	1800	2000	951	455	250	-0	-0
	.9/.9	.8/.9	.7/.8	.6/.6	.5/.5	.4/.4	.3/.3	.2/.2					
200 KT	1200	1400	1600	1800	2000	2200	2400	2600	1255	455	250	-0	-0
	.8/.8	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2					
500 KT	1600	2000	2400	2800	3200	3600	4000	4400	1811	455	250	-0	-0
	.9/.9	.8/.8	.6/.6	.4/.4	.3/.3	.3/.3	.2/.2	.2/.2					
1000 KT	2400	2800	3200	3600	4000	4400	4800	5200	2390	455	250	-0	-0
	.8/.9	.7/.7	.6/.6	.5/.5	.4/.4	.3/.3	.3/.3	.2/.2					
2000 KT	3000	3500	4000	4500	5000	5500	6000	6500	2613	455	250	-0	-0
	.7/.7	.6/.6	.4/.4	.4/.4	.3/.3	.2/.2	.2/.2	.2/.2					
5000 KT	5000	5500	6000	6500	7000	7500	8000	8500	3443	455	250	-0	-0
	.5/.5	.4/.4	.3/.3	.3/.3	.3/.3	.2/.2	.2/.2	.2/.2					

A FALLOUT PREDICTION SHOULD BE MADE

CHAPTER 17

WEAPON EFFECTS TABLES

<u>Weapon System</u>	<u>Page</u>
Short Range Cannon .5 KT.....	321
1 KT.....	323
Medium Range Cannon .5KT	325
1 KT.....	327
2 KT.....	329
Free Flight Rocket 5 KT.....	331
10 KT.....	333
50 KT.....	335
100 KT.....	337
Light Guided Missile 2 KT.....	339
5 KT.....	341
10 KT.....	343
20 KT.....	345
Medium Guided Missile 10 KT.....	347
20 KT.....	349
50 KT.....	351
100 KT.....	353
200 KT.....	355

<u>Weapon System</u>	<u>Page</u>
Heavy Guided Missile 200 KT	357
500 KT	359
1000 KT	361
2000 KT	363
5000 KT.....	365
Air Delivered Weapons 5 KT	367
10 KT	369
20 KT	371
50 KT	373
100 KT	375
200 KT	377
500 KT	379
1000 KT	381
2000 KT	383
5000 KT	385

SHORT RANGE CANNON 0.5 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES		PERSONNEL CASUALTIES		PERSONNEL CASUALTIES		PERSONNEL CASUALTIES		PERSONNEL CASUALTIES		SEV DAM	MOD DAM	SEV DAM	SEV DAM	SEVERE DAMAGE		
	IN		IN		IN		IN		IN		TO	TO	TO	TO	TO		
	APC'S		MDM TANKS		EARTH SHELTERS		MULTI-STORY APARTMENTS		FRAME BUILDINGS		SUP DEP	PKD HEL	ELEC EQUIP	OPEN GRID	BRIDGES		
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY					RADAR ANT	FIXED	FLOAT
42C	15C	50C	C	320	C	0	25C	540	27C	550	C	75C	0	0	0	0	0
40C	23C	51C	C	340	C	0	28C	560	30C	570	C	81C	0	0	0	0	0
38C	26C	53C	C	37C	C	0	31C	57C	33C	58C	C	84C	0	0	0	0	0
36C	29C	54C	4C	35C	C	0	33C	58C	35C	60C	C	88C	0	0	0	0	0
34C	31C	55C	12C	40C	C	0	35C	59C	37C	61C	C	103C	0	0	0	0	0
32C	33C	57C	17C	42C	C	11C	37C	60C	39C	62C	C	107C	0	0	0	0	0
30C	35C	58C	20C	43C	C	16C	39C	61C	40C	63C	C	109C	0	0	0	0	0
28C	37C	59C	23C	45C	C	19C	40C	62C	44C	64C	C	108C	0	0	0	0	0
26C	38C	60C	25C	46C	C	22C	42C	63C	48C	65C	C	106C	0	45C	0	0	0
24C	39C	60C	27C	47C	C	24C	43C	64C	50C	65C	C	105C	0	51C	0	0	0
22C	41C	61C	29C	48C	C	26C	44C	65C	51C	66C	C	102C	0	51C	0	0	0
20C	42C	62C	30C	49C	C	27C	45C	65C	52C	67C	C	100C	0	51C	0	0	0
18C	43C	63C	31C	50C	11C	29C	46C	66C	51C	67C	C	98C	5C	50C	0	0	0
16C	43C	63C	32C	50C	14C	30C	46C	67C	50C	68C	C	96C	8C	48C	0	0	0
14C	44C	64C	33C	51C	16C	31C	47C	67C	48C	68C	C	93C	11C	47C	0	0	0
12C	45C	64C	34C	51C	17C	32C	48C	67C	49C	69C	C	90C	12C	45C	0	7C	7C
10C	45C	64C	35C	52C	19C	32C	48C	68C	49C	69C	C	86C	14C	43C	13C	10C	10C
8C	46C	65C	35C	52C	20C	33C	48C	68C	49C	69C	C	83C	15C	41C	14C	12C	12C
6C	46C	65C	36C	52C	20C	33C	49C	68C	50C	69C	C	80C	16C	39C	13C	13C	13C
4C	46C	65C	36C	53C	21C	34C	49C	68C	50C	69C	C	78C	17C	37C	12C	13C	13C
2C	43C	61C	33C	48C	18C	30C	45C	64C	46C	65C	C	74C	16C	35C	11C	11C	11C
C	43C	61C	33C	48C	15C	30C	45C	64C	46C	65C	C	71C	13C	33C	10C	10C	10C

SHORT RANGE CANNON 0.5 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED			
								NEG	EMER	NEG	EMER	NEG	
420	280	560	0	330	0	0	1580	1100	1580	1100	1290	850	420
400	310	570	0	360	0	0	1580	1110	1580	1110	1300	860	400
380	330	590	0	380	0	0	1590	1120	1590	1120	1310	870	380
360	350	600	70	400	0	0	1590	1120	1590	1120	1310	880	360
340	370	610	140	410	0	0	1600	1130	1600	1130	1320	890	340
320	390	620	180	430	0	0	1600	1140	1600	1140	1320	900	320
300	400	630	210	440	0	0	1600	1140	1600	1140	1330	900	300
280	420	640	240	460	0	0	1610	1150	1610	1150	1330	910	280
260	430	650	260	470	0	0	1610	1150	1610	1150	1330	920	260
240	440	660	280	480	0	0	1610	1150	1610	1150	1340	920	240
220	450	660	290	490	0	0	1620	1160	1620	1160	1340	930	220
200	460	670	310	500	0	0	1620	1160	1620	1160	1350	930	200
180	470	670	320	500	0	0	1620	1170	1620	1170	1350	940	180
160	480	680	330	510	130	0	1620	1170	1620	1170	1350	940	160
140	480	680	340	520	160	0	1630	1170	1630	1170	1350	940	140
120	490	690	350	520	180	0	1630	1170	1630	1170	1350	940	120
100	490	690	350	530	190	70	1630	1180	1630	1180	1360	950	100
80	500	690	360	530	200	90	1630	1180	1630	1180	1360	950	80
60	500	700	360	530	210	100	1630	1180	1630	1180	1360	950	60
40	500	700	360	530	210	110	1630	1180	1630	1180	1360	950	40
20	470	660	330	490	200	120	1590	1130	1590	1130	1310	900	20
0	470	660	330	490	190	80	1590	1130	1590	1130	1310	900	0

HOBfs = 25 HOBopt = 42

SHORT RANGE CANNON 1.0 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR		
														ANT	FIXED	FLOAT
550	110	530	C	310	C	0	220	580	260	600	0	1040	0	C	0	0
525	200	560	C	350	0	0	270	600	300	620	0	1070	0	0	0	0
500	250	580	0	380	C	0	320	630	340	640	C	1110	0	0	0	0
475	300	600	0	410	0	0	350	640	380	660	C	1160	0	0	0	0
450	330	620	0	440	0	0	380	660	420	680	0	1330	0	0	0	0
425	360	640	140	460	0	0	410	680	440	690	0	1410	0	0	0	0
400	390	650	200	450	C	130	440	690	520	710	C	1430	C	C	0	0
375	420	670	240	500	C	150	460	710	580	720	0	1420	0	C	0	0
350	440	680	280	520	C	230	480	720	630	730	C	1410	0	0	0	0
325	460	690	310	540	0	270	490	730	660	740	C	1390	0	710	0	0
300	470	700	330	550	0	290	510	740	680	750	C	1360	0	720	0	0
275	490	710	350	570	10	320	540	750	700	760	0	1330	0	710	0	0
250	500	720	370	580	120	340	550	760	700	770	0	1310	40	710	0	0
225	510	730	390	590	160	360	550	770	690	780	0	1280	90	690	0	0
200	520	740	400	600	190	370	560	780	670	790	0	1250	130	670	0	0
175	530	740	410	600	210	380	570	780	650	750	0	1210	160	640	0	0
150	540	750	420	610	230	390	570	790	630	800	50	1170	180	620	0	130
125	550	750	430	620	250	400	580	790	600	800	80	1130	190	600	180	140
100	550	760	440	620	260	410	580	790	590	810	100	1090	210	570	180	170
75	560	760	440	620	260	410	590	800	600	810	120	1050	220	540	180	180
50	560	760	440	630	270	420	590	800	600	810	130	1020	230	520	170	170
25	520	720	410	580	240	380	550	760	560	770	130	980	220	490	150	150
0	520	720	410	580	240	380	550	760	560	770	80	930	180	460	140	140

SHORT RANGE CANNON 1.0 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED			
								NEG	EMER	NEG	EMER	NEG	
550	250	600	0	320	0	0	1720	1220	1720	1220	1420	940	550
525	300	620	0	360	0	0	1730	1230	1730	1230	1430	960	525
500	340	640	0	400	0	0	1740	1240	1740	1240	1440	970	500
475	380	660	0	430	0	0	1750	1250	1750	1250	1440	980	475
450	400	680	60	450	0	0	1750	1260	1750	1260	1450	1000	450
425	430	700	160	480	0	0	1760	1270	1760	1270	1460	1010	425
400	450	710	210	500	0	0	1760	1270	1760	1270	1470	1020	400
375	480	720	260	520	0	0	1770	1280	1770	1280	1470	1030	375
350	490	740	290	530	0	0	1770	1290	1770	1290	1480	1030	350
325	510	750	320	550	0	0	1780	1290	1780	1290	1480	1040	325
300	530	760	340	560	0	0	1780	1300	1780	1300	1490	1050	300
275	540	770	360	580	0	0	1790	1310	1790	1310	1490	1060	275
250	550	780	380	590	0	0	1790	1310	1790	1310	1500	1060	250
225	560	780	390	600	160	0	1800	1320	1800	1320	1500	1070	225
200	570	790	410	610	200	0	1800	1320	1800	1320	1510	1070	200
175	580	800	420	610	230	0	1800	1320	1800	1320	1510	1080	175
150	590	800	430	620	250	50	1800	1330	1800	1330	1510	1080	150
125	590	810	440	630	270	110	1800	1330	1800	1330	1510	1090	125
100	600	810	440	630	290	140	1810	1330	1810	1330	1520	1090	100
75	600	810	450	630	290	150	1810	1330	1810	1330	1520	1090	75
50	600	810	450	640	290	160	1810	1330	1810	1330	1520	1090	50
25	560	770	410	590	280	150	1770	1290	1770	1290	1470	1040	25
0	570	770	420	600	260	130	1770	1290	1770	1290	1470	1040	0

HOBfs = 32 HOBopt = 55

MEDIUM RANGE CANNON 0.5 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO GRID	SEVERE DAMAGE TO RADAR ANT FIXED FLOAT		
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY							
420	190	500	0	320	0	0	250	540	270	550	0	750	0	0	0	0	0
400	230	510	0	340	0	0	280	560	200	570	0	810	0	0	0	0	0
380	260	520	0	370	0	0	310	570	230	580	0	840	0	0	0	0	0
360	290	540	0	390	0	0	330	580	350	600	0	880	0	0	0	0	0
340	310	550	120	400	0	0	350	590	370	610	0	1030	0	0	0	0	0
320	330	570	170	420	0	110	370	600	390	620	0	1070	0	0	0	0	0
300	350	580	200	430	0	160	390	610	400	630	0	1090	0	0	0	0	0
280	370	590	230	450	0	190	400	620	440	640	0	1080	0	0	0	0	0
260	380	600	250	460	0	220	420	630	480	650	0	1060	0	450	0	0	0
240	390	600	270	470	0	240	420	640	500	650	0	1050	0	510	0	0	0
220	410	610	290	480	0	260	440	650	510	660	0	1020	0	510	0	0	0
200	420	620	300	490	70	270	450	650	520	670	0	1000	0	510	0	0	0
180	430	630	310	500	110	290	460	660	510	670	0	980	50	500	0	0	0
160	430	630	320	500	140	300	460	670	500	680	0	960	80	480	0	0	0
140	440	640	330	510	160	310	470	670	480	680	0	930	110	470	0	0	0
120	450	640	340	510	170	320	480	670	490	690	30	900	120	450	0	70	0
100	450	640	350	520	190	320	480	680	490	690	50	860	140	430	130	100	0
80	460	650	350	520	200	330	480	680	490	690	70	830	150	410	140	120	0
60	460	650	360	520	200	330	490	680	500	690	80	800	160	390	130	130	0
40	460	650	360	530	210	340	490	680	500	690	90	780	170	370	120	130	0
20	430	610	330	480	180	300	450	640	460	650	50	740	160	350	110	110	0
0	430	610	330	480	190	300	450	640	460	650	60	710	130	330	100	100	0

MEDIUM RANGE CANNON 0.5 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED	WARNED EXPOSED	WARNED PROTECTED			
							NEG	EMER	NEG	EMER	NFG	EMER	
420	280	560	0	330	0	0	1580	1100	1580	1100	1290	850	420
400	310	570	0	360	0	0	1580	1110	1580	1110	1300	860	400
380	330	590	0	380	0	0	1590	1120	1590	1120	1310	870	380
360	350	600	70	400	0	0	1590	1120	1590	1120	1310	880	360
340	370	610	140	410	0	0	1600	1130	1600	1130	1320	890	340
320	390	620	180	430	0	0	1600	1140	1600	1140	1320	900	320
300	400	630	210	440	0	0	1600	1140	1600	1140	1330	900	300
280	420	640	240	460	0	0	1610	1150	1610	1150	1330	910	280
260	430	650	260	470	0	0	1610	1150	1610	1150	1330	920	260
240	440	660	280	480	0	0	1610	1150	1610	1150	1340	920	240
220	450	660	290	490	0	0	1620	1160	1620	1160	1340	930	220
200	460	670	310	500	0	0	1620	1160	1620	1160	1350	930	200
180	470	670	320	500	0	0	1620	1170	1620	1170	1350	940	180
160	480	680	330	510	130	0	1620	1170	1620	1170	1350	940	160
140	480	680	340	520	160	0	1630	1170	1630	1170	1350	940	140
120	490	690	350	520	180	0	1630	1170	1630	1170	1350	940	120
100	490	690	350	530	190	70	1630	1180	1630	1180	1360	950	100
80	500	690	360	530	200	90	1630	1180	1630	1180	1360	950	80
60	500	700	360	530	210	100	1630	1180	1630	1180	1360	950	60
40	500	700	360	530	210	110	1630	1180	1630	1180	1360	950	40
20	470	660	330	490	200	100	1590	1130	1590	1130	1310	900	20
0	470	660	330	490	190	80	1590	1130	1590	1130	1310	900	0

HOBfs = 25 HOBopt = 42

MEDIUM RANGE CANNON 1.0 KT

EFFECTS TABLE

(Distances in meters)

	PERSONNEL CASUALTIES IN		PERSONNEL CASUALTIES IN		PERSONNEL CASUALTIES IN		PERSONNEL CASUALTIES IN		PERSONNEL CASUALTIES IN		SEV DAM	MOD DAM	SEV DAM	SEV DAM	SEVERE DAMAGE	
HOB	APC'S		MDM TANKS		EARTH SHELTERS		MULTI-STORY APARTMENTS		FRAME BUILDINGS		TO SUP DEP	TO PKD HEL	TO ELEC EQUIP	TO OPEN GRID	TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
550	110	530	C	310	C	0	220	580	260	600	0	1040	0	0	0	0
525	200	560	0	350	C	0	270	600	300	620	C	1070	0	0	0	0
500	250	580	0	380	C	0	320	630	340	640	C	1110	0	0	0	0
475	300	600	C	410	C	0	350	640	380	660	C	1160	0	0	0	0
450	330	620	0	440	C	0	380	660	420	680	0	1330	0	0	0	0
425	360	640	140	460	C	0	410	680	440	690	0	1410	0	0	0	0
400	390	650	200	490	C	130	440	690	520	710	C	1430	0	0	0	0
375	420	670	240	500	C	190	460	710	580	720	C	1420	0	0	0	0
350	440	680	280	520	C	230	480	720	630	730	C	1410	0	0	0	0
325	460	690	310	540	C	270	490	730	660	740	C	1390	0	710	0	0
300	470	700	330	550	0	290	510	740	680	750	C	1360	0	720	0	0
275	490	710	350	570	10	320	540	750	700	760	0	1330	0	710	0	0
250	500	720	370	580	120	340	550	760	700	770	0	1310	40	710	0	0
225	510	730	390	590	160	360	560	770	690	780	C	1280	90	690	0	0
200	520	740	400	600	190	370	560	780	670	790	0	1250	130	670	0	0
175	530	740	410	600	210	380	570	780	650	790	0	1210	160	640	0	0
150	540	750	420	610	230	390	570	790	630	800	50	1170	180	620	0	130
125	550	750	430	620	250	400	580	790	600	800	80	1130	190	600	180	140
100	550	760	440	620	260	410	580	790	590	810	100	1090	210	570	180	170
75	560	760	440	620	260	410	590	800	600	810	120	1050	220	540	180	180
50	560	760	440	630	270	420	590	800	600	810	130	1020	230	520	170	170
25	520	720	410	580	240	380	550	760	560	770	120	980	220	490	150	150
0	520	720	410	580	240	380	550	760	560	770	80	930	180	460	140	140

MEDIUM RANGE CANNON 1.0 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
							NEG	EMER	NEG	EMER	NEG	EMER	
550	250	600	0	320	0	0	1720	1220	1720	1220	1420	940	550
525	300	620	0	360	0	0	1730	1230	1730	1230	1430	960	525
500	340	640	0	400	0	0	1740	1240	1740	1240	1440	970	500
475	380	660	0	430	0	0	1750	1250	1750	1250	1440	980	475
450	400	680	60	450	0	0	1750	1260	1750	1260	1450	1000	450
425	430	700	160	480	0	0	1760	1270	1760	1270	1460	1010	425
400	450	710	210	500	0	0	1760	1270	1760	1270	1470	1020	400
375	480	720	260	520	0	0	1770	1280	1770	1280	1470	1030	375
350	490	740	290	530	0	0	1770	1290	1770	1290	1480	1030	350
325	510	750	320	550	0	0	1780	1290	1780	1290	1480	1040	325
300	530	760	340	560	0	0	1780	1300	1780	1300	1490	1050	300
275	540	770	360	580	0	0	1790	1310	1790	1310	1490	1060	275
250	550	780	380	590	0	0	1790	1310	1790	1310	1500	1060	250
225	560	780	390	600	160	0	1800	1320	1800	1320	1500	1070	225
200	570	790	410	610	200	0	1800	1320	1800	1320	1510	1070	200
175	580	800	420	610	230	0	1800	1320	1800	1320	1510	1080	175
150	590	800	430	620	250	50	1800	1330	1800	1330	1510	1080	150
125	590	810	440	630	270	110	1800	1330	1800	1330	1510	1090	125
100	600	810	440	630	290	140	1810	1330	1810	1330	1520	1090	100
75	600	810	450	630	290	150	1810	1330	1810	1330	1520	1090	75
50	600	810	450	640	290	160	1810	1330	1810	1330	1520	1090	50
25	560	770	410	590	280	150	1770	1290	1770	1290	1470	1040	25
0	570	770	420	600	260	130	1770	1290	1770	1290	1470	1040	0

HOBfs = 32 HOBopt = 55

MEDIUM RANGE CANNON 2.0 KT

EFFECTS TABLE

(Distances in meters)

	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
HOB	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
650	0	520	0	210	0	0	0	580	250	600	0	1310	0	0	0	0
660	0	560	0	250	0	0	180	620	260	630	0	1350	0	0	0	0
630	160	590	0	350	0	0	260	650	310	660	0	1400	0	0	0	0
600	250	620	0	400	0	0	330	680	450	690	0	1450	0	0	0	0
570	310	650	0	440	0	0	360	700	530	720	0	1630	0	0	0	0
540	360	680	0	480	0	0	420	720	620	740	0	1770	0	0	0	0
510	400	700	130	510	0	0	450	750	690	760	0	1800	0	0	0	0
480	440	720	220	540	0	130	450	770	770	780	0	1800	0	0	0	0
450	470	740	270	560	0	210	510	780	840	840	0	1780	0	0	0	0
420	490	760	320	580	0	270	590	800	880	880	0	1760	0	900	0	0
390	520	770	350	610	0	310	640	820	910	910	0	1730	0	940	0	0
360	540	790	380	620	0	340	690	830	920	920	0	1700	0	940	0	0
330	560	800	410	640	70	370	720	840	920	920	0	1660	10	940	0	0
300	580	810	430	650	150	400	720	850	910	910	0	1630	80	920	0	0
270	590	820	450	670	200	420	710	860	900	900	0	1590	140	890	0	0
240	600	830	470	680	240	440	690	870	870	880	0	1550	180	870	0	0
210	610	840	480	690	260	450	660	880	840	890	30	1510	220	840	0	140
180	620	850	490	700	280	460	660	890	810	900	80	1460	240	810	220	150
150	630	850	500	700	300	470	670	890	780	900	110	1410	260	780	220	210
120	640	860	510	710	310	480	670	900	750	910	140	1360	280	750	240	230
90	640	860	520	710	320	490	680	900	720	910	160	1320	300	710	240	230
60	650	860	520	720	330	490	680	900	690	910	170	1280	310	680	230	230
30	610	820	480	670	300	450	640	860	650	870	170	1230	290	650	200	200
0	610	820	480	670	300	460	640	860	650	870	110	1180	240	610	180	190

MEDIUM RANGE CANNON 2.0 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
							NEG	EMER	NEG	EMER	NEG	EMER	
690	100	610	0	240	0	0	1840	1310	1840	1300	1510	1000	690
660	220	640	0	320	0	0	1850	1330	1850	1310	1520	1020	660
630	300	670	0	370	0	0	1860	1340	1860	1330	1540	1040	630
600	360	700	0	420	0	0	1870	1360	1870	1340	1550	1060	600
570	400	720	0	460	0	0	1880	1370	1880	1360	1560	1070	570
540	440	740	0	490	0	0	1890	1380	1890	1370	1570	1090	540
510	480	770	160	520	0	0	1900	1390	1900	1380	1580	1100	510
480	510	780	230	550	0	0	1900	1400	1900	1390	1590	1120	480
450	530	800	290	580	0	0	1910	1410	1910	1400	1600	1130	450
420	560	820	330	600	0	0	1920	1420	1920	1410	1610	1140	420
390	580	830	360	620	0	0	1930	1430	1930	1420	1610	1150	390
360	600	850	390	640	0	0	1930	1440	1930	1430	1620	1160	360
330	610	860	420	650	0	0	1940	1450	1940	1430	1630	1170	330
300	630	870	440	670	0	0	1940	1450	1940	1440	1630	1180	300
270	640	880	460	680	230	0	1950	1460	1950	1450	1640	1180	270
240	650	890	480	690	280	0	1950	1460	1950	1450	1640	1190	240
210	660	900	490	700	310	0	1950	1470	1950	1460	1650	1200	210
180	670	900	500	710	340	110	1960	1470	1960	1460	1650	1200	180
150	680	910	510	720	360	160	1960	1480	1960	1460	1650	1210	150
120	690	910	520	720	380	190	1960	1480	1960	1470	1660	1210	120
90	690	920	530	730	380	210	1960	1480	1960	1470	1660	1210	90
60	690	920	530	730	380	220	1960	1470	1960	1470	1660	1210	60
30	660	880	490	690	370	210	1930	1430	1930	1430	1610	1160	30
0	660	880	490	690	350	170	1930	1430	1930	1430	1610	1160	0

HOBfs = 39 HOBopt = 67

FREE FLIGHT ROCKE.T

5.0 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR		
														ANT		FIXED
560	C	310	0	0	C	C	C	420	310	450	0	1750	0	0	0	0
920	0	410	0	0	C	0	C	500	450	520	0	1800	0	0	0	0
880	C	450	0	0	C	0	C	570	560	590	0	1860	0	0	0	0
840	0	560	0	110	C	0	C	630	670	670	0	1930	0	0	0	0
800	C	610	0	280	C	0	270	680	770	770	0	2000	0	0	0	0
760	160	660	0	370	C	0	290	720	900	900	0	2360	0	0	0	0
720	290	710	0	450	0	0	410	760	1060	1060	0	2410	0	0	0	0
680	320	740	0	510	C	0	510	800	1140	1140	0	2450	0	0	0	0
640	440	780	0	560	0	0	700	830	1210	1210	0	2430	0	0	0	0
600	490	810	220	600	C	100	820	860	1240	1240	0	2410	0	0	0	0
560	540	840	310	640	C	240	900	900	1270	1270	0	2370	0	1340	0	0
520	580	860	370	670	C	310	980	980	1300	1300	0	2330	0	1360	0	0
480	610	890	420	700	C	370	1010	1010	1290	1290	0	2290	0	1360	0	0
440	640	910	460	720	0	420	1020	1020	1290	1290	0	2250	40	1350	0	0
400	660	930	500	750	160	460	1010	1010	1280	1280	0	2200	140	1320	0	0
360	690	940	530	770	230	490	980	980	1250	1250	0	2150	210	1280	0	0
320	710	960	550	780	290	520	940	1000	1220	1220	0	2100	270	1240	0	0
280	720	970	570	800	330	540	910	1010	1180	1180	50	2040	320	1200	0	230
240	740	980	590	810	360	560	870	1020	1140	1140	130	1970	350	1160	300	300
200	750	990	610	820	380	570	840	1030	1100	1100	170	1910	380	1120	330	340
160	760	1000	620	830	400	590	800	1040	1060	1060	200	1850	400	1070	330	340
120	770	1000	630	840	410	600	800	1040	1010	1050	230	1790	430	1030	330	340
80	770	1000	630	840	420	600	810	1050	960	1060	240	1730	450	980	320	320
40	730	970	590	800	390	560	770	1010	900	1020	240	1670	420	930	290	300
0	730	970	590	800	390	560	770	1010	840	1020	160	1600	350	880	270	280

FREE FLIGHT ROCKET 5.0 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
							NEG	EMER	NEG	EMER	NEG	EMER	
960	0	460	0	0	0	0	2730	2060	1960	1350	1580	1000	960
920	0	540	0	0	0	0	2740	2080	1970	1380	1610	1040	920
880	0	600	0	0	0	0	2760	2100	1990	1410	1630	1070	880
840	0	660	0	190	0	0	2770	2110	2010	1430	1650	1100	840
800	210	700	0	320	0	0	2780	2130	2030	1450	1670	1130	800
760	330	750	0	410	0	0	2790	2140	2040	1480	1690	1160	760
720	410	790	0	470	0	0	2800	2160	2060	1500	1710	1180	720
680	470	820	0	530	0	0	2810	2170	2070	1510	1720	1210	680
640	520	850	110	580	0	0	2820	2180	2080	1530	1740	1230	640
600	570	880	250	620	0	0	2830	2190	2090	1550	1750	1250	600
560	610	910	330	660	0	0	2840	2200	2110	1560	1770	1270	560
520	650	930	390	690	0	0	2850	2210	2120	1580	1780	1280	520
480	850	950	440	720	0	0	2850	2220	2130	1590	1790	1300	480
440	880	970	480	740	0	0	2860	2230	2130	1600	1800	1310	440
400	890	990	510	760	0	0	2860	2240	2140	1610	1810	1330	400
360	870	1000	540	780	340	0	2870	2250	2150	1620	1820	1340	360
320	830	1020	560	800	410	0	2870	2250	2160	1630	1820	1350	320
280	790	1030	590	820	450	0	2880	2260	2160	1640	1830	1360	280
240	790	1040	600	830	490	170	2880	2260	2170	1640	1840	1360	240
200	800	1050	620	840	520	240	2890	2270	2170	1650	1840	1370	200
160	810	1050	630	850	550	280	2890	2270	2170	1650	1850	1380	160
120	820	1060	640	850	560	300	2890	2270	2180	1660	1850	1380	120
80	820	1060	640	860	550	320	2760	2170	2180	1660	1850	1380	80
40	780	1020	600	820	530	300	2410	1900	2150	1620	1810	1330	40
0	790	1020	610	820	500	240	2150	1630	2150	1620	1810	1340	0

HOBfs = 51 HOBopt = 91

FREE FLIGHT ROCKET 10.0 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
1265	C	C	0	0	C	0	0	0	880	880	0	243C	0	0	0	0
1210	C	0	0	0	C	0	0	0	1100	1100	C	2500	0	0	0	0
1155	C	100	0	C	C	0	250	330	1300	1300	C	2590	0	0	0	0
1100	C	360	0	0	C	0	450	480	1510	1510	0	2690	0	0	0	0
1045	C	500	0	0	C	0	660	660	1610	1610	C	3080	0	0	0	0
990	C	600	0	0	C	0	850	850	1690	1690	C	3260	0	0	0	0
935	0	680	0	300	C	0	1000	1000	1780	1780	C	3220	0	0	0	0
880	240	750	C	440	C	0	1140	1140	1800	1800	C	3310	0	0	0	0
825	390	810	0	530	C	0	1270	1270	1820	1820	C	3280	0	0	0	0
770	450	870	0	610	C	0	1360	1360	1830	1830	C	3230	0	1890	0	0
715	570	910	260	670	C	140	1400	1400	1830	1830	C	3180	0	1960	0	0
660	430	550	380	730	C	310	1430	1430	1820	1820	C	3120	0	1970	0	0
605	680	950	460	770	0	400	1420	1420	1810	1810	0	3060	30	1950	0	0
550	730	1020	530	810	C	480	1400	1400	1770	1770	C	3000	180	1910	0	0
495	770	1050	580	850	200	530	1360	1360	1730	1730	C	2930	290	1860	0	0
440	800	1070	620	880	300	580	1310	1310	1680	1680	0	2860	390	1800	0	0
385	830	1090	660	900	370	620	1250	1250	1640	1640	60	2770	450	1740	450	490
330	850	1110	690	930	420	650	1200	1200	1590	1590	180	2680	500	1680	470	510
275	870	1130	710	940	460	670	1150	1170	1530	1530	240	2590	540	1620	480	510
220	880	1140	730	960	490	690	1110	1180	1470	1470	280	2510	580	1550	490	520
165	900	1150	740	970	510	710	1070	1190	1400	1400	330	2430	620	1480	480	500
110	910	1150	750	980	520	720	1030	1200	1330	1330	350	2350	640	1410	450	470
55	870	1120	710	930	490	680	980	1160	1240	1240	340	2260	610	1340	410	440
C	870	1120	710	930	490	680	960	1160	1170	1170	230	2170	510	1270	370	410

FREE FLIGHT ROCKET 10.0 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
							NEG	EMER	NEG	EMER	NEG	EMER	
1265	0	0	0	0	0	0	4260	3240	2060	1680	1620	920	1265
1210	0	160	0	0	0	0	4280	3260	2100	1720	1660	990	1210
1155	0	390	0	0	0	0	4290	3280	2130	1760	1700	1060	1155
1100	30	530	0	0	0	0	4310	3300	2160	1790	1730	1110	1100
1045	200	630	0	0	0	0	4320	3320	2180	1820	1770	1160	1045
990	360	710	0	150	0	0	4330	3340	2210	1850	1800	1210	990
935	500	780	0	360	0	0	4340	3350	2230	1880	1830	1250	935
880	620	850	0	480	0	0	4360	3370	2260	1910	1860	1290	880
825	740	900	0	570	0	0	4370	3380	2280	1930	1880	1330	825
770	860	950	80	640	0	0	4380	3390	2300	1960	1900	1360	770
715	1260	1260	300	700	0	0	4390	3400	2310	1980	1930	1390	715
660	1320	1320	400	750	0	0	4390	3420	2330	2000	1950	1420	660
605	1340	1340	480	800	0	0	4400	3430	2340	2010	1960	1440	605
550	1330	1330	540	840	0	0	4410	3440	2360	2030	1980	1460	550
495	1300	1300	590	870	480	0	4420	3440	2370	2040	1990	1480	495
440	1250	1250	640	900	580	0	4420	3450	2380	2060	2010	1500	440
385	1180	1180	670	920	650	0	4430	3460	2390	2070	2020	1520	385
330	1120	1170	700	950	710	220	4430	3460	2400	2080	2030	1530	330
275	1080	1190	720	960	750	340	4440	3470	2410	2080	2040	1540	275
220	1040	1200	740	980	790	390	4440	3470	2410	2090	2040	1550	220
165	1000	1210	750	990	800	440	4440	3480	2420	2100	2050	1560	165
110	970	1220	770	1000	790	460	4220	3300	2400	1990	2050	1560	110
55	930	1180	730	950	770	430	3790	2960	2380	1820	2020	1520	55
0	930	1180	730	960	730	350	3350	2620	2380	1820	2020	1520	0

HOBfs = 67 HOBopt = 114

FREE FLIGHT ROCKET 50.0 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR		
														ANT		FIXED
2300	C	0	0	0	C	0	0	0	1250	1250	C	4410	0	C	0	0
2200	0	0	C	0	C	0	C	0	1270	1270	0	4550	0	0	0	0
2100	C	0	0	0	C	0	C	0	1770	1770	C	4700	0	0	0	0
2000	C	0	C	C	C	0	1060	1060	2090	2090	C	4880	0	0	0	0
1900	C	0	0	0	0	0	1110	1110	2370	2370	C	5580	0	0	0	0
1800	C	0	0	0	C	0	1150	1150	2650	2650	C	5930	0	0	0	0
1700	C	0	0	0	0	0	1200	1200	2950	2950	0	6030	0	0	0	0
1600	C	0	0	0	C	0	1610	1610	3180	3180	C	6020	0	0	0	0
1500	C	0	0	0	0	0	1940	1940	3300	3300	0	5950	0	0	0	0
1400	C	520	C	0	C	0	2190	2190	3370	3370	C	5870	0	3860	0	0
1300	C	740	C	C	C	0	2350	2350	3380	3380	C	5770	0	4020	0	0
1200	200	890	0	420	C	0	2450	2450	3370	3370	0	5670	0	4030	0	0
1100	520	1010	C	640	C	0	2530	2530	3330	3330	C	5560	70	4000	0	0
1000	690	1110	230	750	0	0	2540	2540	3280	3280	C	5450	370	3520	0	0
900	820	1200	450	900	C	410	2500	2500	3230	3230	C	5330	600	3800	0	0
800	920	1260	640	990	C	580	2430	2430	3150	3150	0	5190	790	3690	0	1100
700	990	1320	750	1060	310	700	2350	2350	3050	3050	120	5040	520	3570	890	1110
600	1060	1370	830	1120	480	790	2250	2250	2950	2950	360	4870	1020	3450	920	1150
500	1110	1410	900	1170	580	860	2140	2140	2830	2830	450	4710	1110	3320	950	1150
400	1150	1440	950	1210	650	910	2050	2050	2710	2710	580	4570	1190	3180	950	1120
300	1180	1470	980	1240	710	940	1960	1960	2590	2590	670	4420	1270	3040	930	1080
200	1200	1480	1010	1260	740	970	1900	1900	2460	2460	720	4270	1320	2900	880	1030
100	1180	1460	970	1220	710	940	1840	1840	2320	2320	710	4120	1240	2750	800	970
0	1180	1470	980	1220	720	940	1770	1770	2180	2180	470	3940	1030	2600	750	900

FREE FLIGHT ROCKET 50.0 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED	WARNED EXPOSED	WARNED PROTECTED			
							NEG	EMER	NEG	EMER	NEG	EMER	
2300	610	610	0	0	0	0	10020	7370	4720	3780	2090	1250	2300
2200	840	840	0	0	0	0	10040	7400	4770	3840	2190	1420	2200
2100	1020	1020	0	0	0	0	10070	7430	4810	3900	2290	1570	2100
2000	1170	1170	0	0	0	0	10090	7460	4850	3950	2380	1690	2000
1900	1330	1330	0	0	0	0	10110	7480	4890	4000	2460	1800	1900
1800	1480	1480	0	0	0	0	10120	7510	4930	4050	2530	1900	1800
1700	1620	1620	0	0	0	0	10140	7530	4970	4090	2600	1990	1700
1600	1760	1760	0	0	0	0	10160	7550	5000	4130	2660	2070	1600
1500	1910	1910	0	0	0	0	10170	7570	5030	4170	2720	2150	1500
1400	2760	2760	0	0	0	0	10190	7590	5060	4200	3020	2210	1400
1300	2940	2940	0	130	0	0	10200	7610	5090	4230	3090	2270	1300
1200	2950	2950	0	520	0	0	10210	7620	5110	4260	3080	2330	1200
1100	2910	2910	0	710	0	0	10220	7640	5130	4290	3020	2380	1100
1000	2850	2850	330	840	0	0	10230	7650	5150	4310	2950	2420	1000
900	2780	2780	540	950	980	0	10240	7670	5170	4340	2970	2460	900
800	2700	2700	950	1030	1190	0	10250	7680	5190	4350	3000	2490	800
700	2600	2600	1040	1100	1330	0	10260	7690	5200	4370	3030	2520	700
600	2510	2510	990	1160	1440	460	10260	7700	5220	4390	3050	2550	600
500	2420	2420	920	1210	1540	690	10270	7700	5230	4400	3070	2570	500
400	2320	2320	970	1240	1610	810	10270	7710	5240	4410	3080	2590	400
300	2220	2220	1010	1270	1640	890	10280	7710	5240	4420	3090	2600	300
200	2120	2120	1030	1290	1630	940	9750	7320	4980	4190	2940	2430	200
100	2010	2010	1000	1260	1570	880	9100	6830	4650	3920	2750	2320	100
0	1900	1900	1010	1270	1490	720	8460	6350	4320	3640	2560	2160	0

HOBfs = 121 HOBopt = 195

FREE FLIGHT ROCKET 100.0 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
3000	0	0	0	0	0	0	0	0	1770	1770	0	5420	0	0	0	0
2875	C	0	0	0	0	0	0	0	2170	2170	0	5550	0	0	0	0
2750	0	0	0	0	0	0	0	0	2700	2700	0	5760	0	0	0	0
2625	0	0	0	0	0	0	650	650	3380	3380	0	5960	0	0	0	0
2500	0	0	0	0	0	0	700	700	3650	3650	0	6190	0	0	0	0
2375	0	0	0	0	0	0	1490	1490	3910	3910	0	7290	0	0	0	0
2250	0	0	0	0	0	0	1500	1900	4060	4060	0	7490	0	0	0	0
2125	0	0	0	0	0	0	2330	2330	4180	4180	0	7610	0	0	0	0
2000	0	0	0	0	0	0	2720	2720	4290	4290	0	7570	0	0	0	0
1875	0	0	0	0	0	0	2960	2960	4350	4350	0	7490	0	0	0	0
1750	0	0	0	0	0	0	3170	3170	4350	4350	0	7390	0	5190	0	0
1625	0	270	0	0	0	0	3280	3280	4350	4350	0	7260	0	5310	0	0
1500	0	680	0	0	0	0	3330	3330	4330	4330	0	7130	0	5310	0	0
1375	0	510	0	240	0	0	3290	3290	4260	4260	0	7000	120	5280	0	0
1250	510	1070	0	620	0	0	3260	3260	4170	4170	0	6850	510	5160	0	0
1125	750	1200	180	820	0	0	3180	3180	4070	4070	0	6700	810	5010	0	0
1000	510	1310	550	570	0	470	3080	3080	3960	3960	0	6530	1060	4860	1110	1410
875	1020	1400	730	1050	0	670	2980	2980	3850	3850	180	6340	1220	4700	1180	1550
750	1120	1470	860	1180	440	810	2860	2860	3730	3730	480	6120	1350	4540	1210	1570
625	1200	1520	550	1250	650	510	2720	2720	3590	3590	650	5930	1470	4370	1220	1560
500	1260	1570	1020	1300	710	980	2590	2590	3440	3440	770	5750	1580	4190	1240	1530
375	1300	1600	1080	1340	780	1040	2460	2460	3280	3280	880	5570	1670	4010	1200	1470
250	1250	1600	1060	1320	780	1030	2380	2380	3120	3120	950	5380	1740	3820	1140	1390
125	1310	1620	1080	1340	810	1050	2220	2220	2950	2950	930	5180	1640	3630	1040	1330
C	1320	1620	1090	1350	820	1060	2260	2260	2770	2770	620	4960	1370	3430	980	1230

FREE FLIGHT ROCKET 100.0 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED	WARNED EXPOSED	WARNED PROTECTED			
							NEG	EMER	NEG	EMER	NEG	EMER	
3000	900	900	0	0	0	0	13920	10010	6400	5100	2910	1800	3000
2875	1340	1340	0	0	0	0	13950	10050	6450	5170	3030	1990	2875
2750	1600	1600	0	0	0	0	13980	10080	6510	5240	3150	2160	2750
2625	1810	1810	0	0	0	0	14000	10110	6560	5300	3250	2310	2625
2500	1990	1990	0	0	0	0	14020	10150	6610	5360	3350	2450	2500
2375	2160	2160	0	0	0	0	14050	10180	6650	5420	3440	2570	2375
2250	2310	2310	0	0	0	0	14070	10200	6700	5470	3520	2680	2250
2125	2490	2490	0	0	0	0	14090	10230	6740	5520	3600	2780	2125
2000	2570	2570	0	0	0	0	14100	10260	6890	5570	3670	2870	2000
1875	2840	2840	0	0	0	0	14120	10280	6960	5610	3740	2950	1875
1750	3990	3990	0	0	0	0	14140	10300	7000	5650	3820	3030	1750
1625	4050	4050	0	0	0	0	14150	10320	6970	5690	3890	3100	1625
1500	4030	4030	0	0	0	0	14170	10340	6900	5720	3900	3160	1500
1375	3960	3960	0	430	0	0	14180	10360	6930	5750	3950	3220	1375
1250	3870	3870	430	720	0	0	14190	10370	6950	5780	3990	3270	1250
1125	3770	3770	700	900	1320	0	14200	10390	6980	5810	4030	3310	1125
1000	3660	3660	1210	1210	1580	0	14210	10400	6990	5830	4060	3350	1000
875	3550	3550	1310	1310	1760	0	14220	10410	7010	5850	4090	3390	875
750	3420	3420	1240	1240	1910	630	14220	10420	7030	5870	4110	3420	750
625	3300	3300	1160	1300	2040	920	14230	10430	7040	5880	4130	3440	625
500	3160	3160	1110	1350	2130	1070	14240	10440	7050	5890	4150	3460	500
375	3020	3020	1110	1390	2170	1180	14240	10440	7060	5900	4160	3480	375
250	2870	2870	1100	1380	2150	1240	13530	9920	6710	5610	3960	3310	250
125	2720	2720	1120	1400	2070	1160	12800	9390	6350	5320	3760	3140	125
0	2570	2570	1130	1400	1970	950	12080	8860	5990	5010	3540	2970	0

HOBfs = 139 HOBopt = 246

LIGHT GUIDED MISSILE 2 KT

EFFECTS TABLE

(Distances in meters)

(BLAST ONLY)
ACFT ELECTRONICS

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR		
														ANT		FIXED
650	C	520	C	210	C	0	C	580	250	600	0	1310	0	0	0	0
660	C	560	C	250	C	0	180	620	260	630	0	1350	0	0	0	0
630	160	550	0	350	0	0	260	650	310	660	0	1400	0	0	0	0
600	250	620	C	400	C	0	330	680	450	690	0	1450	0	0	0	0
570	310	650	0	440	C	0	380	700	530	720	0	1630	0	0	0	0
540	360	680	C	480	0	0	420	720	620	740	C	1770	0	0	0	0
510	400	700	130	510	C	0	450	750	690	760	0	1800	0	0	0	0
480	440	720	220	540	C	130	450	770	720	780	0	1800	0	0	0	0
450	470	740	270	560	0	210	510	780	840	840	C	1780	0	0	0	0
420	490	760	320	580	C	270	550	800	880	880	C	1760	0	900	0	0
390	520	770	350	610	C	310	640	820	910	910	0	1730	0	940	0	0
360	540	790	380	620	C	340	650	830	920	920	0	1700	0	940	0	0
330	560	800	410	640	70	370	720	840	920	920	0	1660	10	940	0	0
300	580	810	430	650	150	400	720	850	910	910	C	1630	80	920	0	0
270	590	820	450	670	200	420	710	860	900	900	0	1590	140	890	0	0
240	600	830	470	680	240	440	690	870	870	880	C	1550	180	870	0	0
210	610	840	480	690	260	450	660	880	840	890	30	1510	220	840	0	140
180	620	850	490	700	280	460	660	890	810	900	80	1460	240	810	220	150
150	630	850	500	700	300	470	670	890	780	900	110	1410	260	780	220	210
120	640	860	510	710	310	480	670	900	750	910	140	1360	280	750	240	230
90	640	860	520	710	320	490	680	900	720	910	160	1320	300	710	240	230
60	650	860	520	720	330	490	680	900	690	910	170	1280	310	680	230	230
30	610	820	480	670	300	450	640	860	650	870	170	1230	290	650	200	200
C	610	820	480	670	300	460	640	860	650	870	110	1180	240	610	180	190

LIGHT GUIDED MISSILE 2 KT

EFFECTS TABLE

(Distances in meters)

PERS
ON DECK

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
							UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
	PRMPT	DELAY	PRMPT	DELAY			NEG	EMER	NEG	EMER	NEG	EMER	
690	100	610	0	240	0	0	1840	1310	1840	1300	1510	1000	690
660	220	640	0	320	0	0	1850	1330	1850	1310	1520	1020	660
630	300	670	0	370	0	0	1860	1340	1860	1330	1540	1040	630
600	360	700	0	420	0	0	1870	1360	1870	1340	1550	1060	600
570	400	720	0	460	0	0	1880	1370	1880	1360	1560	1070	570
540	440	740	0	490	0	0	1890	1380	1890	1370	1570	1090	540
510	480	770	160	520	0	0	1900	1390	1900	1380	1580	1100	510
480	510	780	230	550	0	0	1900	1400	1900	1390	1590	1120	480
450	530	800	290	580	0	0	1910	1410	1910	1400	1600	1130	450
420	560	820	330	600	0	0	1920	1420	1920	1410	1610	1140	420
390	580	830	360	620	0	0	1930	1430	1930	1420	1610	1150	390
360	600	850	390	640	0	0	1930	1440	1930	1430	1620	1160	360
330	610	860	420	650	0	0	1940	1450	1940	1430	1630	1170	330
300	630	870	440	670	0	0	1940	1450	1940	1440	1630	1180	300
270	640	880	460	680	230	0	1950	1460	1950	1450	1640	1180	270
240	650	890	480	690	280	0	1950	1460	1950	1450	1640	1190	240
210	660	900	490	700	310	0	1950	1470	1950	1460	1650	1200	210
180	670	900	500	710	340	110	1960	1470	1960	1460	1650	1200	180
150	680	910	510	720	360	160	1960	1480	1960	1460	1650	1210	150
120	690	910	520	720	380	190	1960	1480	1960	1470	1660	1210	120
90	690	920	530	730	380	210	1960	1480	1960	1470	1660	1210	90
60	690	920	530	730	380	220	1960	1470	1960	1470	1660	1210	60
30	660	880	490	690	370	210	1930	1430	1930	1430	1610	1160	30
0	660	880	490	690	350	170	1930	1430	1930	1430	1610	1160	0

HOBfs = 39 HOBopt = 67

LIGHT GUIDED MISSILE 5 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
96C	C	310	C	0	C	0	0	42C	31C	45C	0	1750	0	0	0	0
92C	C	41C	C	0	C	0	C	50C	45C	53C	C	180C	0	0	0	0
88C	C	49C	C	0	C	0	C	57C	56C	59C	C	186C	0	0	0	0
84C	C	56C	0	11C	C	0	0	63C	67C	67C	C	193C	0	0	0	0
80C	C	61C	C	28C	C	0	27C	68C	77C	77C	C	20C0	0	0	0	0
76C	16C	66C	0	37C	C	0	29C	72C	90C	90C	C	236C	0	0	0	0
72C	29C	71C	C	45C	C	0	41C	76C	106C	106C	C	241C	0	C	0	0
68C	37C	74C	0	51C	C	0	57C	80C	114C	114C	C	245C	0	0	0	0
64C	44C	78C	0	56C	C	0	70C	83C	121C	121C	C	243C	0	C	0	0
60C	49C	81C	22C	60C	0	10C	82C	86C	124C	124C	C	241C	0	C	0	0
56C	54C	84C	31C	64C	C	24C	90C	90C	127C	127C	C	237C	0	134C	0	0
52C	58C	86C	37C	67C	0	31C	98C	98C	130C	130C	C	233C	0	136C	0	0
48C	61C	89C	42C	70C	C	37C	101C	101C	129C	129C	C	229C	0	136C	0	0
44C	64C	91C	46C	72C	C	42C	102C	102C	129C	129C	C	225C	40	135C	0	0
40C	66C	93C	50C	75C	16C	46C	101C	101C	128C	128C	C	220C	14C	132C	0	0
36C	69C	94C	53C	77C	23C	49C	98C	98C	125C	125C	C	215C	21C	128C	0	0
32C	71C	96C	55C	78C	29C	52C	94C	100C	122C	122C	C	210C	27C	124C	0	0
28C	72C	97C	57C	80C	33C	54C	91C	101C	118C	118C	5C	204C	32C	120C	0	23C
24C	74C	98C	59C	81C	36C	56C	87C	102C	114C	114C	13C	197C	35C	116C	30C	30C
20C	75C	99C	61C	82C	38C	57C	84C	103C	110C	110C	17C	191C	38C	112C	33C	34C
16C	76C	100C	62C	83C	40C	59C	80C	104C	106C	106C	20C	185C	40C	107C	33C	34C
12C	77C	100C	63C	84C	41C	60C	80C	104C	101C	105C	23C	179C	43C	103C	33C	34C
8C	77C	100C	63C	84C	42C	60C	81C	105C	96C	106C	24C	173C	45C	98C	32C	32C
4C	73C	97C	59C	80C	39C	56C	77C	101C	90C	102C	24C	167C	42C	93C	29C	30C
C	73C	97C	59C	80C	39C	56C	77C	101C	84C	102C	16C	160C	35C	88C	27C	28C

LIGHT GUIDED MISSILE 5 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
							NEG	EMER	NEG	EMER	NEG	EMER	
960	0	460	0	0	0	0	2730	2060	1960	1350	1580	1000	960
920	0	540	0	0	0	0	2740	2080	1970	1380	1610	1040	920
880	0	600	0	0	0	0	2760	2100	1990	1410	1630	1070	880
840	0	660	0	190	0	0	2770	2110	2010	1430	1650	1100	840
800	210	700	0	320	0	0	2780	2130	2030	1450	1670	1130	800
760	330	750	0	410	0	0	2790	2140	2040	1480	1690	1160	760
720	410	790	0	470	0	0	2800	2160	2060	1500	1710	1180	720
680	470	820	0	530	0	0	2810	2170	2070	1510	1720	1210	680
640	520	850	110	580	0	0	2820	2180	2080	1530	1740	1230	640
600	570	880	250	620	0	0	2830	2190	2090	1550	1750	1250	600
560	610	910	330	660	0	0	2840	2200	2110	1560	1770	1270	560
520	650	930	390	690	0	0	2850	2210	2120	1580	1780	1280	520
480	850	950	440	720	0	0	2850	2220	2130	1590	1790	1300	480
440	880	970	480	740	0	0	2860	2230	2130	1600	1800	1310	440
400	890	990	510	760	0	0	2860	2240	2140	1610	1810	1330	400
360	870	1000	540	780	340	0	2870	2250	2150	1620	1820	1340	360
320	830	1020	560	800	410	0	2870	2250	2160	1630	1820	1350	320
280	790	1030	590	820	450	0	2880	2260	2160	1640	1830	1360	280
240	790	1040	600	830	490	170	2880	2260	2170	1640	1840	1360	240
200	800	1050	620	840	520	240	2890	2270	2170	1650	1840	1370	200
160	810	1050	630	850	550	280	2890	2270	2170	1650	1850	1380	160
120	820	1060	640	850	560	300	2890	2270	2180	1660	1850	1380	120
80	820	1060	640	860	550	320	2760	2170	2180	1660	1850	1380	80
40	780	1020	600	820	530	300	2410	1900	2150	1620	1810	1330	40
0	790	1020	610	820	500	240	2150	1630	2150	1620	1810	1340	0

HOBfs = 51 HOBopt = 91

LIGHT GUIDED MISSILE IO KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID RADAR ANT	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY					FIXED	FLOAT
1265	C	C	0	0	C	0	C	0	880	880	C	2430	0	0	0	0
1210	C	C	0	0	C	0	C	0	1100	1100	C	2500	0	0	0	0
1155	C	100	C	C	C	0	250	320	1200	1300	C	2590	0	0	0	0
1100	C	360	C	C	C	0	450	480	1510	1510	C	2690	0	C	0	0
1045	C	500	0	0	C	0	660	660	1610	1610	0	3080	0	0	0	0
990	C	600	0	0	C	0	850	850	1690	1690	C	3260	0	0	0	0
935	C	660	C	300	C	0	1000	1000	1780	1780	C	3320	0	0	0	0
880	240	750	C	440	C	0	1140	1140	1800	1800	C	3310	0	0	0	0
825	390	810	0	530	C	0	1270	1270	1820	1820	C	2280	0	0	0	0
770	450	870	C	610	C	0	1360	1360	1830	1830	C	3230	0	1890	0	0
715	570	910	260	670	0	140	1400	1400	1830	1830	C	3180	0	1960	0	0
660	420	950	380	720	C	310	1420	1420	1820	1820	C	3120	0	1970	0	0
605	660	990	460	770	0	400	1420	1420	1810	1810	0	3060	30	1950	0	0
550	730	1020	530	810	C	480	1400	1400	1770	1770	C	3000	180	1910	0	0
495	770	1050	580	850	200	520	1360	1360	1730	1730	C	2930	290	1860	0	0
440	800	1070	620	880	300	580	1310	1310	1680	1680	0	2860	390	1800	0	0
385	830	1090	660	900	370	620	1250	1250	1640	1640	60	2770	450	1740	450	490
330	850	1110	690	920	420	650	1200	1200	1590	1590	180	2680	500	1680	470	510
275	870	1130	710	940	460	670	1150	1170	1530	1530	240	2590	540	1620	480	510
220	880	1140	730	960	490	690	1110	1180	1470	1470	280	2510	580	1550	490	520
165	900	1150	740	970	510	710	1070	1190	1400	1400	320	2420	620	1480	480	500
110	910	1150	750	980	520	720	1020	1200	1330	1330	350	2350	640	1410	450	470
55	870	1120	710	930	490	680	980	1160	1240	1240	340	2260	610	1340	410	440
C	870	1120	710	930	450	680	960	1160	1170	1170	230	2170	510	1270	370	410

LIGHT GUIDED MISSILE 10 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
							UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
	PRMPT	DELAY	PRMPT	DELAY			NEG	EMER	NEG	EMER	NEG	EMER	
1265	0	0	0	0	0	0	4260	3240	2060	1680	1620	920	1265
1210	0	160	0	0	0	0	4280	3260	2100	1720	1660	990	1210
1155	0	390	0	0	0	0	4290	3280	2130	1760	1700	1060	1155
1100	30	530	0	0	0	0	4310	3300	2160	1790	1730	1110	1100
1045	200	630	0	0	0	0	4320	3320	2180	1820	1770	1160	1045
990	360	710	0	150	0	0	4330	3340	2210	1850	1800	1210	990
935	500	780	0	360	0	0	4340	3350	2230	1880	1830	1250	935
880	620	850	0	480	0	0	4360	3370	2260	1910	1860	1290	880
825	740	900	0	570	0	0	4370	3380	2280	1930	1880	1330	825
770	860	950	80	640	0	0	4380	3390	2300	1960	1900	1360	770
715	1260	1260	300	700	0	0	4390	3400	2310	1980	1930	1390	715
660	1320	1320	400	750	0	0	4390	3420	2330	2000	1950	1420	660
605	1340	1340	480	800	0	0	4400	3430	2340	2010	1960	1440	605
550	1330	1330	540	840	0	0	4410	3440	2360	2030	1980	1460	550
495	1300	1300	590	870	480	0	4420	3440	2370	2040	1990	1480	495
440	1250	1250	640	900	580	0	4420	3450	2380	2060	2010	1500	440
385	1180	1180	670	920	650	0	4430	3460	2390	2070	2020	1520	385
330	1120	1170	700	950	710	220	4430	3460	2400	2080	2030	1530	330
275	1080	1190	720	960	750	340	4440	3470	2410	2090	2040	1540	275
220	1040	1200	740	980	790	390	4440	3470	2410	2090	2040	1550	220
165	1000	1210	760	990	800	440	4440	3480	2420	2100	2050	1560	165
110	970	1220	770	1000	790	460	4220	3300	2400	1990	2050	1560	110
55	930	1180	730	950	770	430	3790	2960	2380	1820	2020	1520	55
0	930	1180	730	960	730	350	3350	2620	2380	1820	2020	1520	0

HOBfs = 67 HOBopt = 114

LIGHT GUIDED MISSILE 20 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
175C	C	0	C	C	C	0	C	0	1070	1070	C	2180	0	C	0	0
168C	C	0	C	C	C	0	C	0	1240	1240	C	2270	0	C	0	0
161C	C	0	C	C	C	C	C	C	1350	1350	C	3370	0	0	0	0
154C	C	0	0	0	C	0	C	0	1430	1430	C	3480	0	0	0	0
147C	C	0	C	C	C	0	820	820	1580	1580	0	3610	0	0	0	0
140C	C	C	C	C	C	0	950	950	1860	1860	C	4110	0	C	0	0
1330	C	0	C	C	C	0	1050	1050	2010	2010	C	4360	0	0	0	0
126C	C	280	C	C	C	0	1150	1150	2160	2160	C	4440	0	C	0	0
1190	C	560	0	C	C	0	1240	1240	2300	2300	C	4440	0	0	0	0
1120	C	650	C	C	C	C	1390	1390	2390	2390	C	4400	0	0	0	0
105C	C	750	0	350	C	0	1620	1620	2440	2440	C	4350	0	2560	0	0
98C	350	880	C	540	C	0	1740	1740	2470	2470	C	4280	0	2770	0	0
910	530	950	0	650	C	0	1810	1810	2490	2490	C	4210	0	2790	0	0
84C	640	1010	280	740	0	140	1860	1860	2460	2460	C	4130	0	2770	0	0
77C	720	1070	440	810	C	260	1860	1860	2420	2420	C	4050	160	2750	0	0
70C	750	1110	540	670	C	480	1830	1830	2380	2380	C	3970	340	2680	0	0
63C	840	1160	620	920	120	570	1790	1790	2330	2330	C	3880	480	2600	0	0
56C	850	1190	690	970	310	640	1740	1740	2260	2260	0	3780	590	2520	630	740
49C	930	1220	740	1010	410	700	1680	1680	2190	2190	150	3670	670	2440	650	740
42C	970	1250	780	1040	450	740	1610	1610	2110	2110	280	3550	730	2360	660	740
35C	950	1270	810	1060	540	780	1550	1550	2040	2040	350	3440	780	2280	670	750
28C	1020	1290	840	1080	580	800	1490	1490	1960	1960	410	3340	840	2190	680	740
21C	1030	1300	860	1100	610	830	1440	1440	1870	1870	470	3240	890	2090	660	720
140	1040	1310	880	1110	630	840	1380	1380	1770	1770	500	3140	910	2000	620	690
7C	1010	1280	830	1070	590	800	1320	1320	1690	1690	450	3030	860	1900	560	640
0	1010	1280	840	1070	600	800	1280	1330	1580	1580	220	2900	720	1800	530	600

LIGHT GUIDED MISSILE 20 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
							UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED			
	PRMPT	DELAY	PRMPT	DELAY				NEG	EMER	NEG	EMER	NEG	
1750	0	0	0	0	0	0	6460	4850	3060	2460	1440	370	1750
1680	0	0	0	0	0	0	6480	4870	3100	2510	1520	610	1680
1610	220	220	0	0	0	0	6500	4900	3130	2560	1590	780	1610
1540	340	340	0	0	0	0	6510	4920	3170	2600	1660	910	1540
1470	460	460	0	0	0	0	6530	4940	3200	2640	1720	1020	1470
1400	620	620	0	0	0	0	6550	4960	3230	2680	1780	1110	1400
1330	780	780	0	0	0	0	6560	4980	3260	2710	1830	1200	1330
1260	920	920	0	0	0	0	6570	5000	3290	2750	1880	1270	1260
1190	1040	1040	0	0	0	0	6590	5010	3320	2780	1930	1340	1190
1120	1170	1170	0	240	0	0	6600	5030	3340	2810	1970	1390	1120
1050	1560	1560	0	460	0	0	6610	5050	3360	2830	2200	1450	1050
980	1650	1650	0	590	0	0	6620	5060	3380	2860	2270	1500	980
910	1960	1960	0	690	0	0	6630	5070	3400	2880	2270	1540	910
840	1970	1970	330	780	0	0	6640	5090	3420	2900	2240	1580	840
770	1960	1960	470	850	0	0	6650	5100	3440	2920	2200	1610	770
700	1920	1920	570	910	610	0	6660	5110	3450	2940	2150	1650	700
630	1870	1870	650	960	750	0	6660	5120	3470	2960	2180	1670	630
560	1800	1800	730	1000	870	0	6670	5120	3480	2970	2190	1700	560
490	1720	1720	760	1030	950	0	6680	5130	3490	2980	2210	1720	490
420	1660	1660	800	1060	1020	370	6680	5140	3500	2990	2230	1740	420
350	1600	1600	830	1090	1090	500	6690	5140	3510	3000	2240	1750	350
280	1540	1540	860	1110	1120	570	6690	5150	3510	3010	2250	1770	280
210	1480	1480	880	1130	1140	630	6690	5150	3520	3020	2260	1780	210
140	1420	1420	890	1140	1130	650	6290	4840	3310	2840	2260	1740	140
70	1360	1360	850	1100	1090	610	5780	4450	3040	2610	2230	1700	70
0	1300	1350	860	1100	1030	500	5280	4060	2780	2380	2230	1710	0

HOBfs = 81 HOBopt = 144

MEDIUM GUIDED MISSILE 10 KT.

EFFECTS TABLE

(Distances in meters)

	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
HOB	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
1265	C	0	0	0	C	0	0	0	880	880	0	2430	0	0	0	0
1210	C	0	0	0	C	0	0	0	1100	1100	0	2500	0	0	0	0
1155	C	100	C	0	C	0	250	330	1300	1300	C	2590	0	0	0	0
1100	C	360	0	0	C	0	450	480	1510	1510	C	2690	0	C	0	0
1045	0	500	0	0	C	0	660	660	1610	1610	C	3080	0	0	0	0
990	C	600	0	0	C	0	850	850	1690	1690	0	3260	0	0	0	0
935	C	680	0	360	0	0	1000	1000	1780	1780	0	3320	0	0	0	0
880	240	750	C	440	C	0	1140	1140	1800	1800	0	3310	0	0	0	0
825	390	810	0	530	C	0	1270	1270	1820	1820	C	3280	0	0	0	0
770	490	870	0	610	C	0	1360	1360	1830	1830	0	3230	0	1890	0	0
715	570	910	260	670	C	140	1400	1400	1830	1830	C	3180	0	1960	0	0
660	620	950	380	730	C	310	1430	1430	1820	1820	0	3120	0	1970	0	0
605	680	990	460	770	C	400	1420	1420	1810	1810	0	3060	30	1950	0	0
550	720	1020	530	810	C	480	1400	1400	1770	1770	0	3000	180	1910	0	0
495	770	1050	580	850	200	530	1360	1360	1730	1730	C	2930	290	1860	0	0
440	800	1070	620	880	300	580	1310	1310	1680	1680	0	2860	390	1800	0	0
385	830	1090	660	900	370	620	1250	1250	1640	1640	60	2770	450	1740	450	490
330	850	1110	690	930	420	650	1200	1200	1590	1590	180	2680	500	1680	470	510
275	870	1130	710	940	460	670	1150	1170	1530	1530	240	2590	540	1620	480	510
220	880	1140	730	960	490	690	1110	1180	1470	1470	280	2510	580	1550	490	520
165	900	1150	740	970	510	710	1070	1190	1400	1400	330	2430	620	1480	480	500
110	910	1150	750	980	520	720	1030	1200	1330	1330	350	2350	640	1410	450	470
55	870	1120	710	930	490	680	980	1160	1240	1240	340	2260	610	1340	410	440
0	870	1120	710	930	490	680	960	1160	1170	1170	230	2170	510	1270	370	410

MEDIUM GUIDED MISSILE 10 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
							UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
	PRMPT	DELAY	PRMPT	DELAY			NEG	EMER	NEG	EMER	NEG	EMER	
1265	0	0	0	0	0	0	4260	3240	2060	1680	1620	920	1265
1210	0	160	0	0	0	0	4280	3260	2100	1720	1660	990	1210
1155	0	390	0	0	0	0	4290	3280	2130	1760	1700	1060	1155
1100	30	530	0	0	0	0	4310	3300	2160	1790	1730	1110	1100
1045	200	630	0	0	0	0	4320	3320	2180	1820	1770	1160	1045
990	360	710	0	150	0	0	4330	3340	2210	1850	1800	1210	990
935	500	780	0	360	0	0	4340	3350	2230	1880	1830	1250	935
880	620	850	0	480	0	0	4360	3370	2260	1910	1860	1290	880
825	740	900	0	570	0	0	4370	3380	2280	1930	1880	1330	825
770	860	950	80	640	0	0	4380	3390	2300	1960	1900	1360	770
715	1260	1260	300	700	0	0	4390	3400	2310	1980	1930	1390	715
660	1320	1320	400	750	0	0	4390	3420	2330	2000	1950	1420	660
605	1340	1340	480	800	0	0	4400	3430	2340	2010	1960	1440	605
550	1330	1330	540	840	0	0	4410	3440	2360	2030	1980	1460	550
495	1300	1300	590	870	480	0	4420	3440	2370	2040	1990	1480	495
440	1250	1250	640	900	580	0	4420	3450	2380	2060	2010	1500	440
385	1180	1180	670	920	650	0	4430	3460	2390	2070	2020	1520	385
330	1120	1170	700	950	710	220	4430	3460	2400	2080	2030	1530	330
275	1080	1190	720	960	750	340	4440	3470	2410	2080	2040	1540	275
220	1040	1200	740	980	790	390	4440	3470	2410	2090	2040	1550	220
165	1000	1210	760	990	800	440	4440	3480	2420	2100	2050	1560	165
110	970	1220	770	1000	790	460	4220	3300	2400	1990	2050	1560	110
55	930	1180	730	950	770	430	3790	2960	2380	1820	2020	1520	55
0	930	1180	730	960	730	350	3350	2620	2380	1820	2020	1520	0

HOBfs = 67 HOBopt = 114

MEDIUM GUIDED MISSILE 20 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES		
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT	
175C	C	0	C	0	C	0	C	0	1070	1070	C	3180	0	0	0	0	
168C	C	0	C	0	C	0	C	0	1240	1240	C	3270	0	0	0	0	
1610	C	0	C	0	C	0	C	0	1250	1250	C	3370	0	0	0	0	
1540	C	0	C	0	C	0	C	0	1430	1430	C	3480	C	0	0	0	
1470	C	0	C	0	C	0	820	820	1580	1580	C	3610	0	C	0	0	
1400	C	0	C	0	C	0	950	950	1860	1860	0	4110	0	0	0	0	
1330	C	0	C	0	C	0	1050	1050	2010	2010	C	4360	0	0	0	0	
1260	C	360	C	0	C	0	1150	1150	2160	2160	C	4440	0	0	0	0	
1190	C	560	C	0	C	0	1240	1240	2300	2300	0	4440	0	0	0	0	
1120	C	650	C	0	C	0	1350	1350	2390	2390	C	4400	0	0	0	0	
1050	C	750	C	390	C	0	1620	1620	2440	2440	0	4350	0	2560	0	0	
980	250	880	C	540	C	0	1740	1740	2470	2470	C	4280	0	2770	0	0	
910	320	950	C	650	C	0	1810	1810	2490	2490	C	4210	0	2790	0	0	
840	440	1010	280	740	C	140	1860	1860	2460	2460	C	4130	0	2770	0	0	
770	720	1070	440	810	C	360	1860	1860	2420	2420	0	4050	160	2750	0	0	
700	790	1110	540	870	C	480	1830	1830	2380	2380	C	3970	340	2680	0	0	
630	840	1160	620	930	120	570	1790	1790	2330	2330	C	3880	480	2600	0	0	
560	890	1190	690	970	310	640	1740	1740	2260	2260	C	3780	590	2520	630	740	
490	930	1220	740	1010	410	700	1680	1680	2190	2190	150	3670	670	2440	650	740	
420	970	1250	780	1040	490	740	1610	1610	2110	2110	280	3550	730	2360	660	740	
350	990	1270	810	1060	540	780	1550	1550	2040	2040	350	3440	780	2280	670	750	
280	1020	1290	840	1080	580	800	1490	1490	1960	1960	410	3340	840	2190	680	740	
210	1030	1300	860	1100	610	830	1440	1440	1870	1870	470	3240	890	2090	660	720	
140	1040	1310	880	1110	630	840	1380	1380	1770	1770	500	3140	910	2000	620	690	
70	1010	1280	830	1070	550	800	1320	1320	1690	1690	490	3030	860	1900	560	640	
0	1010	1280	840	1070	600	800	1280	1330	1580	1580	330	2900	720	1800	530	600	

MEDIUM GUIDED MISSILE 20 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED			
								NEG	EMER	NEG	EMER	NEG	
1750	0	0	0	0	0	0	6460	4850	3060	2460	1440	370	1750
1680	0	0	0	0	0	0	6480	4870	3100	2510	1520	610	1680
1610	220	220	0	0	0	0	6500	4900	3130	2560	1590	780	1610
1540	340	340	0	0	0	0	6510	4920	3170	2600	1660	910	1540
1470	460	460	0	0	0	0	6530	4940	3200	2640	1720	1020	1470
1400	620	620	0	0	0	0	6550	4960	3230	2680	1780	1110	1400
1330	780	780	0	0	0	0	6560	4980	3260	2710	1830	1200	1330
1260	920	920	0	0	0	0	6570	5000	3290	2750	1880	1270	1260
1190	1040	1040	0	0	0	0	6590	5010	3320	2780	1930	1340	1190
1120	1170	1170	0	240	0	0	6600	5030	3340	2810	1970	1390	1120
1050	1560	1560	0	460	0	0	6610	5050	3360	2830	2200	1450	1050
980	1650	1650	0	590	0	0	6620	5060	3380	2860	2270	1500	980
910	1960	1960	0	690	0	0	6630	5070	3400	2880	2270	1540	910
840	1970	1970	330	780	0	0	6640	5090	3420	2900	2240	1580	840
770	1960	1960	470	850	0	0	6650	5100	3440	2920	2200	1610	770
700	1920	1920	570	910	610	0	6660	5110	3450	2940	2150	1650	700
630	1870	1870	650	960	750	0	6660	5120	3470	2960	2180	1670	630
560	1800	1800	730	1000	870	0	6670	5120	3480	2970	2190	1700	560
490	1720	1720	760	1030	950	0	6680	5130	3490	2980	2210	1720	490
420	1660	1660	800	1060	1020	370	6680	5140	3500	2990	2230	1740	420
350	1600	1600	830	1090	1090	500	6690	5140	3510	3000	2240	1750	350
280	1540	1540	860	1110	1120	570	6690	5150	3510	3010	2250	1770	280
210	1480	1480	880	1130	1140	630	6690	5150	3520	3020	2260	1780	210
140	1420	1420	890	1140	1130	650	6290	4840	3310	2840	2260	1740	140
70	1360	1360	850	1100	1090	610	5780	4450	3040	2610	2230	1700	70
0	1300	1350	860	1100	1030	500	5280	4060	2780	2380	2230	1710	0

HOBfs = 81 HOBopt = 114

MEDIUM GUIDED MISSILE

50 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID RADAR ANT	SEVERE DAMAGE TO BRIDGES	FIXED	FLOAT
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY							
230C	C	0	0	0	C	0	C	0	1250	1250	C	4410	0	0	0	0	0
220C	C	0	0	0	C	0	C	0	1270	1270	C	4550	0	0	0	0	0
210C	C	0	0	0	C	0	C	0	1770	1770	C	4700	0	0	0	0	0
200C	C	0	0	0	C	0	1060	1060	2090	2090	C	4880	0	0	0	0	0
190C	C	0	0	0	C	0	1110	1110	2370	2370	C	5580	0	0	0	0	0
180C	C	0	0	0	C	0	1150	1150	2650	2650	C	5930	0	0	0	0	0
1700	C	0	0	0	C	0	1200	1200	2950	2950	C	6030	0	0	0	0	0
160C	C	0	0	0	C	0	1610	1610	3180	3180	C	6020	0	0	0	0	0
150C	C	0	0	0	C	0	1940	1940	3300	3300	C	5950	0	0	0	0	0
140C	C	530	C	0	C	0	2190	2190	3370	3370	C	5870	0	3860	0	0	0
1300	C	740	0	0	C	0	2350	2350	3380	3380	C	5770	0	4020	0	0	0
120C	200	890	0	420	C	0	2490	2490	3370	3370	C	5670	0	4030	0	0	0
110C	120	1010	0	640	0	0	2530	2530	3330	3330	C	5560	70	4000	0	0	0
100C	690	1110	230	790	C	0	2540	2540	3280	3280	C	5450	370	3920	0	0	0
90C	820	1200	490	900	0	410	2500	2500	3230	3230	C	5330	600	3800	0	0	0
80C	920	1260	640	990	0	580	2430	2430	3150	3150	C	5190	790	3690	0	1100	0
70C	990	1320	750	1060	310	700	2350	2350	3050	3050	120	5040	920	3570	890	1110	0
60C	1060	1370	830	1120	480	790	2250	2250	2950	2950	360	4870	1020	3450	920	1150	0
500	1110	1410	900	1170	580	860	2140	2140	2830	2830	490	4710	1110	3320	950	1150	0
40C	1150	1440	950	1210	650	910	2050	2050	2710	2710	560	4570	1190	3180	950	1120	0
30C	1180	1470	980	1240	710	940	1960	1960	2590	2590	670	4420	1270	3040	930	1080	0
20C	1200	1480	1010	1260	740	970	1900	1900	2460	2460	720	4270	1320	2900	880	1030	0
10C	1180	1460	970	1220	710	940	1840	1840	2320	2320	710	4120	1240	2750	800	970	0
C	1180	1470	980	1220	720	940	1770	1770	2180	2180	470	3940	1030	2600	750	900	0

MEDIUM GUIDED MISSILE 50 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
							UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED			
	PRMPT	DELAY	PRMPT	DELAY			NEG	EMER	NEG	EMER	NEG	EMER	
2300	610	610	0	0	0	0	10020	7370	4720	3780	2090	1250	2300
2200	840	840	0	0	0	0	10040	7400	4770	3840	2190	1420	2200
2100	1020	1020	0	0	0	0	10070	7430	4810	3900	2290	1570	2100
2000	1170	1170	0	0	0	0	10090	7460	4850	3950	2380	1690	2000
1900	1330	1330	0	0	0	0	10110	7480	4890	4000	2460	1800	1900
1800	1480	1480	0	0	0	0	10120	7510	4930	4050	2530	1900	1800
1700	1620	1620	0	0	0	0	10140	7530	4970	4090	2600	1990	1700
1600	1760	1760	0	0	0	0	10160	7550	5000	4130	2660	2070	1600
1500	1910	1910	0	0	0	0	10170	7570	5030	4170	2720	2150	1500
1400	2760	2760	0	0	0	0	10190	7590	5060	4200	3020	2210	1400
1300	2940	2940	0	130	0	0	10200	7610	5090	4230	3090	2270	1300
1200	2950	2950	0	520	0	0	10210	7620	5110	4260	3080	2330	1200
1100	2910	2910	0	710	0	0	10220	7640	5130	4290	3020	2380	1100
1000	2850	2850	330	840	0	0	10230	7650	5150	4310	2950	2420	1000
900	2780	2780	540	950	980	0	10240	7670	5170	4340	2970	2460	900
800	2700	2700	950	1030	1190	0	10250	7680	5190	4350	3000	2490	800
700	2600	2600	1040	1100	1330	0	10260	7690	5200	4370	3030	2520	700
600	2510	2510	990	1160	1440	460	10260	7700	5220	4390	3050	2550	600
500	2420	2420	920	1210	1540	690	10270	7700	5230	4400	3070	2570	500
400	2320	2320	970	1240	1610	810	10270	7710	5240	4410	3080	2590	400
300	2220	2220	1010	1270	1640	890	10280	7710	5240	4420	3090	2600	300
200	2120	2120	1030	1290	1630	940	9750	7320	4980	4190	2940	2480	200
100	2010	2010	1000	1260	1570	880	9100	6830	4650	3920	2750	2320	100
0	1900	1900	1010	1270	1490	720	8460	6350	4320	3640	2560	2160	0

HOBfa = 121 HOBopt = 195

MEDIUM GUIDED MISSILE 100 KY

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
2000	C	C	0	0	C	0	0	0	1770	1770	0	5420	0	0	0	0
2875	0	0	0	0	0	0	0	0	2170	2170	0	5550	0	0	0	0
2750	C	0	0	0	C	0	0	0	2700	2700	0	5760	0	0	0	0
2625	0	0	0	0	0	0	650	650	3380	3380	0	5960	0	0	0	0
2500	0	0	0	0	C	0	700	700	3650	3650	0	6190	0	0	0	0
2375	0	0	0	0	0	0	1490	1490	3910	3910	0	7250	0	0	0	0
2250	C	0	0	0	0	0	1900	1900	4060	4060	0	7450	0	0	0	0
2125	C	0	0	0	0	0	2330	2330	4180	4180	0	7610	0	0	0	0
2000	0	0	C	0	0	0	2720	2720	4290	4290	0	7570	0	0	0	0
1875	0	0	0	0	0	0	2960	2960	4350	4350	0	7490	0	0	0	0
1750	0	0	0	0	0	0	3170	3170	4350	4350	0	7390	0	5190	0	0
1625	0	270	0	0	0	0	3280	3280	4350	4350	0	7260	0	5310	0	0
1500	0	680	0	0	0	0	3330	3330	4330	4330	0	7130	0	5310	0	0
1375	C	510	0	240	0	0	3290	3290	4260	4260	0	7000	120	5280	0	0
1250	510	1070	0	620	0	0	3260	3260	4170	4170	0	6850	510	5160	0	0
1125	750	1200	180	820	0	0	3160	3180	4070	4070	0	6700	810	5010	0	0
1000	910	1310	550	970	0	470	3060	3080	3960	3960	0	6530	1060	4860	1110	1410
875	1030	1400	730	1050	0	670	2960	2980	3850	3850	180	6340	1220	4700	1180	1550
750	1120	1470	860	1180	440	810	2860	2860	3730	3730	480	6120	1350	4540	1210	1570
625	1200	1520	950	1250	650	910	2720	2720	3590	3590	650	5930	1470	4370	1220	1560
500	1260	1570	1020	1300	710	980	2590	2590	3440	3440	770	5750	1580	4190	1240	1530
375	1300	1600	1080	1340	780	1040	2460	2460	3280	3280	880	5570	1670	4010	1200	1470
250	1250	1600	1060	1320	780	1030	2380	2380	3120	3120	950	5380	1740	3820	1140	1390
125	1310	1620	1080	1340	810	1050	2320	2320	2950	2950	920	5180	1640	3630	1040	1330
C	1320	1620	1090	1350	820	1060	2260	2260	2770	2770	620	4960	1370	3430	980	1230

MEDIUM GUIDED MISSILE 100 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED	WARNED EXPOSED	WARNED PROTECTED			
							NEG	EMER	NEG	EMER	NEG	EMER	
3000	900	900	0	0	0	0	13920	10010	6400	5100	2910	1800	3000
2875	1340	1340	0	0	0	0	13950	10050	6450	5170	3030	1990	2875
2750	1600	1600	0	0	0	0	13980	10080	6510	5240	3150	2160	2750
2625	1810	1810	0	0	0	0	14000	10110	6560	5300	3250	2310	2625
2500	1990	1990	0	0	0	0	14020	10150	6610	5360	3350	2450	2500
2375	2160	2160	0	0	0	0	14050	10180	6650	5420	3440	2570	2375
2250	2310	2310	0	0	0	0	14070	10200	6700	5470	3520	2680	2250
2125	2490	2490	0	0	0	0	14090	10230	6740	5520	3600	2780	2125
2000	2670	2670	0	0	0	0	14100	10260	6890	5570	3670	2870	2000
1875	2840	2840	0	0	0	0	14120	10280	6960	5610	3740	2950	1875
1750	3990	3990	0	0	0	0	14140	10300	7000	5650	3820	3030	1750
1625	4050	4050	0	0	0	0	14150	10320	6970	5690	3890	3100	1625
1500	4030	4030	0	0	0	0	14170	10340	6900	5720	3900	3160	1500
1375	3960	3960	0	430	0	0	14180	10360	6930	5750	3950	3220	1375
1250	3870	3870	430	720	0	0	14190	10370	6950	5780	3990	3270	1250
1125	3770	3770	700	900	1320	0	14200	10390	6980	5810	4030	3310	1125
1000	3660	3660	1210	1210	1580	0	14210	10400	6990	5830	4060	3350	1000
875	3550	3550	1310	1310	1760	0	14220	10410	7010	5850	4090	3390	875
750	3420	3420	1240	1240	1910	630	14220	10420	7030	5870	4110	3420	750
625	3300	3300	1160	1300	2040	920	14230	10430	7040	5880	4130	3440	625
500	3160	3160	1110	1350	2130	1070	14240	10440	7050	5890	4150	3460	500
375	3020	3020	1110	1390	2170	1180	14240	10440	7060	5900	4160	3480	375
250	2870	2870	1100	1380	2150	1240	13530	9920	6710	5610	3960	3310	250
125	2720	2720	1120	1400	2070	1160	12800	9390	6350	5320	3760	3140	125
0	2570	2570	1130	1400	1970	950	12080	8860	5990	5010	3540	2970	0

HOBfs = 139 HOBopt = 246

MEDIUM GUIDED MISSILE 200 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES		
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT	
3720	C	0	0	0	C	0	C	0	2740	2740	0	6510	0	0	0	0	0
3565	C	0	0	0	C	0	C	0	2970	2970	0	7120	0	0	0	0	0
3410	C	0	0	0	C	0	C	0	3100	3100	C	7340	0	0	0	0	0
3255	C	0	0	0	C	0	1670	1670	3450	3450	0	7600	0	0	0	0	0
3100	C	0	0	0	C	0	1980	1980	4020	4020	C	7910	0	0	0	0	0
2945	C	0	0	0	C	0	2250	2250	4430	4430	0	5280	0	0	0	0	0
2790	C	0	0	0	C	0	2470	2470	4770	4770	0	5480	0	0	0	0	0
2635	C	0	0	0	C	0	2650	2650	5150	5150	C	5600	0	0	0	0	0
2480	C	0	0	0	C	0	2870	2870	5310	5310	C	9520	0	0	0	0	0
2325	C	0	0	0	C	0	3520	3520	5410	5410	0	5410	0	0	0	0	0
2170	C	0	0	0	C	0	3780	3780	5460	5460	0	9270	0	6930	0	0	0
2015	C	0	0	0	C	0	3980	3980	5450	5450	0	5120	0	7020	0	0	0
1860	C	0	0	0	C	0	4080	4080	5400	5400	0	8950	0	6990	0	0	0
1705	C	600	0	0	C	0	4110	4110	5320	5320	0	8780	260	6950	0	0	0
1550	C	530	0	0	C	0	4050	4050	5230	5230	0	8600	750	6770	0	0	0
1395	440	1150	C	610	0	0	3960	3960	5110	5110	0	8410	1120	6580	0	2150	0
1240	440	1310	210	890	C	0	3860	3860	4970	4970	C	8200	1430	6380	1610	2150	0
1085	1030	1440	640	1070	C	560	3730	3730	4840	4840	290	7950	1640	6180	1600	2130	0
930	1170	1550	850	1210	430	790	3590	3590	4690	4690	660	7650	1800	5970	1580	2130	0
775	1280	1630	590	1310	810	540	3440	3440	4530	4530	870	7450	1950	5750	1590	2080	0
620	1360	1700	1090	1390	780	1050	3260	3260	4340	4340	1030	7230	2090	5520	1570	2020	0
465	1420	1750	1170	1450	860	1130	3120	3120	4160	4160	1170	7000	2220	5270	1530	1970	0
310	1430	1760	1170	1450	880	1130	2990	2990	3960	3960	1250	6770	2290	5030	1460	1910	0
155	1460	1780	1200	1470	520	1170	2860	2860	3730	3730	1220	6530	2160	4780	1360	1830	0
C	1470	1790	1210	1480	530	1180	2790	2790	3460	3460	820	6250	1800	4530	1290	1700	0

MEDIUM GUIDED MISSILE 200 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
							NEG	EMER	NEG	EMER	NEG	EMER	
3720	1990	1990	0	0	0	0	19400	13550	8740	6990	4210	2840	3720
3565	2390	2390	0	0	0	0	19430	13590	8800	7070	4340	3040	3565
3410	2660	2660	0	0	0	0	19450	13630	8860	7140	4470	3210	3410
3255	2900	2900	0	0	0	0	19480	13670	8920	7220	4580	3370	3255
3100	3120	3120	0	0	0	0	19510	13700	8980	7280	4690	3510	3100
2945	3340	3340	0	0	0	0	19530	13740	9030	7350	4790	3640	2945
2790	3590	3590	0	0	0	0	19550	13770	9080	7410	4880	3760	2790
2635	3930	3930	0	0	0	0	19570	13800	9370	7460	4960	3870	2635
2480	4190	4190	0	0	0	0	19590	13830	9630	7520	5040	3970	2480
2325	4400	4400	0	0	0	0	19610	13850	9680	7570	5120	4070	2325
2170	5580	5580	0	0	0	0	19630	13880	9660	7610	5180	4150	2170
2015	5620	5620	0	0	0	0	19650	13900	9580	7660	5250	4230	2015
1860	5570	5570	0	0	0	0	19660	13920	9450	7690	5300	4300	1860
1705	5470	5470	0	0	0	0	19680	13940	9340	7730	5350	4360	1705
1550	5350	5350	590	590	1240	0	19690	13960	9370	7760	5400	4420	1550
1395	5210	5210	930	930	1790	0	19700	13980	9390	7790	5440	4470	1395
1240	5060	5060	1540	1540	2120	0	19710	13990	9420	7820	5480	4520	1240
1085	4900	4900	1650	1650	2350	0	19720	14010	9440	7840	5510	4560	1085
930	4720	4720	1550	1550	2540	880	19730	14020	9450	7860	5540	4590	930
775	4540	4540	1450	1450	2710	1230	19730	14030	9470	7880	5570	4620	775
620	4350	4350	1390	1460	2820	1420	19740	14030	9480	7890	5580	4640	620
465	4150	4150	1360	1510	2860	1560	19610	13940	9420	7850	5560	4630	465
310	3940	3940	1330	1520	2830	1640	18820	13380	9040	7540	5340	4450	310
155	3730	3730	1310	1540	2730	1530	18020	12820	8670	7220	5130	4270	155
0	3510	3510	1290	1550	2590	1260	17230	12250	8280	6900	4900	4080	0

HOBfs = 332 HOBopt = 310

HEAVY GUIDED MISSILE 200 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR		
														ANT	FIXED	FLOAT
3720	C	0	C	0	0	0	C	0	2740	2740	0	6910	0	0	0	0
3565	C	0	C	0	0	0	0	0	2970	2970	0	7120	0	0	0	0
3410	0	C	0	C	C	0	0	0	3100	3100	C	7340	0	0	0	0
3255	C	0	0	0	C	0	1670	1670	3450	3450	C	7600	0	0	0	0
3100	C	0	0	0	0	0	1980	1980	4020	4020	C	7910	0	0	0	0
2945	0	0	0	0	C	0	2250	2250	4430	4430	0	9260	0	0	0	0
2790	C	0	0	0	0	0	2470	2470	4770	4770	0	9480	0	0	0	0
2635	C	0	0	0	C	0	2650	2650	5150	5150	C	9600	0	0	0	0
2480	0	0	0	0	0	0	2870	2870	5310	5310	C	9520	0	0	0	0
2325	0	0	C	0	C	0	3520	3520	5410	5410	0	9410	0	0	0	0
2170	0	0	0	0	0	0	3780	3780	5460	5460	0	9270	0	6930	0	0
2015	C	0	C	0	C	0	3980	3980	5450	5450	0	9120	0	7020	0	0
1860	0	0	0	0	0	0	4080	4080	5400	5400	0	8950	0	6990	0	0
1705	C	600	0	0	0	0	4110	4110	5320	5320	C	8780	260	6950	0	0
1550	0	530	C	0	0	0	4050	4050	5230	5230	C	8600	750	6770	0	0
1395	540	1150	0	610	C	0	3960	3960	5110	5110	C	8410	1120	6580	0	2150
1240	840	1310	210	890	C	0	3860	3860	4970	4970	0	8200	1430	6380	1610	2150
1085	1030	1440	640	1070	C	560	3730	3730	4840	4840	290	7950	1640	6180	1600	2130
930	1170	1550	850	1210	430	790	3590	3590	4690	4690	660	7650	1800	5970	1580	2130
775	1280	1630	950	1310	810	940	3440	3440	4530	4530	870	7450	1950	5750	1590	2080
620	1260	1700	1090	1390	780	1050	3260	3260	4340	4340	1030	7230	2090	5520	1570	2020
465	1420	1750	1170	1450	860	1130	3120	3120	4160	4160	1170	7000	2220	5270	1530	1970
310	1430	1760	1170	1450	880	1130	2950	2950	3960	3960	1250	6770	2290	5030	1460	1910
155	1460	1780	1200	1470	920	1170	2860	2860	3730	3730	1220	6530	2160	4780	1360	1830
0	1470	1790	1210	1480	930	1180	2790	2790	3460	3460	820	6250	1800	4530	1290	1700

HEAVY GUIDED MISSILE 200 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED			
								NEG	EMER	NEG	EMER		
3720	1990	1990	0	0	0	0	19400	13550	8740	6990	4210	2840	3720
3565	2390	2390	0	0	0	0	19430	13590	8800	7070	4340	3040	3565
3410	2660	2660	0	0	0	0	19450	13630	8860	7140	4470	3210	3410
3255	2900	2900	0	0	0	0	19480	13670	8920	7220	4580	3370	3255
3100	3120	3120	0	0	0	0	19510	13700	8980	7280	4690	3510	3100
2945	3340	3340	0	0	0	0	19530	13740	9030	7350	4790	3640	2945
2790	3590	3590	0	0	0	0	19550	13770	9080	7410	4880	3760	2790
2635	3930	3930	0	0	0	0	19570	13800	9370	7460	4960	3870	2635
2480	4190	4190	0	0	0	0	19590	13830	9630	7520	5040	3970	2480
2325	4400	4400	0	0	0	0	19610	13850	9680	7570	5120	4070	2325
2170	5580	5580	0	0	0	0	19630	13880	9660	7610	5180	4150	2170
2015	5620	5620	0	0	0	0	19650	13900	9580	7660	5250	4230	2015
1860	5570	5570	0	0	0	0	19660	13920	9450	7690	5300	4300	1860
1705	5470	5470	0	0	0	0	19680	13940	9340	7730	5350	4360	1705
1550	5350	5350	590	590	1240	0	19690	13960	9370	7760	5400	4420	1550
1395	5210	5210	930	930	1790	0	19700	13980	9390	7790	5440	4470	1395
1240	5060	5060	1540	1540	2120	0	19710	13990	9420	7820	5480	4520	1240
1085	4900	4900	1650	1650	2350	0	19720	14010	9440	7840	5510	4560	1085
930	4720	4720	1550	1550	2540	880	19730	14020	9450	7860	5540	4590	930
775	4540	4540	1450	1450	2710	1230	19730	14030	9470	7880	5570	4620	775
620	4350	4350	1390	1440	2820	1420	19740	14030	9480	7890	5580	4640	620
465	4150	4150	1360	1510	2860	1560	19610	13940	9420	7850	5560	4630	465
310	3940	3940	1330	1520	2830	1640	18820	13380	9040	7540	5340	4450	310
155	3730	3730	1310	1540	2730	1530	18020	12820	8670	7220	5130	4270	155
0	3510	3510	1290	1550	2590	1260	17230	12250	8280	6900	4900	4080	0

HOBfs = 332 HOBopt = 310

HEAVY GUIDED MISSILE 500 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
504C	0	0	0	0	0	0	0	0	2650	2650	0	5390	0	0	0	0
4820	0	0	0	0	0	0	0	0	2860	2860	0	9670	0	0	0	0
4620	0	0	0	0	0	0	0	0	3510	3510	0	9580	0	0	0	0
4410	0	0	0	0	0	0	2050	2050	4350	4350	0	10330	0	0	0	0
4200	0	0	0	0	0	0	2210	2210	5230	5230	0	10750	0	0	0	0
3990	0	0	0	0	0	0	2310	2310	5600	5800	0	12610	0	0	0	0
3780	0	0	0	0	0	0	2400	2400	6400	6400	0	12880	0	0	0	0
3570	0	0	0	0	0	0	2900	2900	6880	6880	0	13030	0	0	0	0
3360	0	0	0	0	0	0	3700	3700	7090	7090	0	12910	0	0	0	0
3150	0	0	0	0	0	0	4520	4520	7280	7280	0	12770	0	0	0	0
2940	0	0	0	0	0	0	4580	4580	7370	7370	0	12580	0	10000	0	0
2730	0	0	0	0	0	0	5280	5280	7340	7340	0	12370	0	10130	0	0
2520	0	0	0	0	0	0	5490	5490	7300	7300	0	12150	0	10090	0	0
2310	0	0	0	0	0	0	5530	5530	7210	7210	0	11920	390	10020	0	0
2100	0	0	0	0	0	0	5450	5450	7110	7110	0	11670	1090	9770	0	3370
1890	0	150	0	0	0	0	5260	5260	6930	6930	0	11410	1620	9490	0	3340
1680	370	1210	0	360	0	0	5210	5210	6740	6740	0	11130	2070	9200	2270	3290
1470	150	1460	0	890	0	0	5020	5030	6520	6520	420	10750	2360	8910	2270	3340
1260	1170	1640	670	1170	580	590	4830	4830	6320	6320	960	10440	2600	8610	2320	3280
1050	1360	1750	570	1360	1100	1100	4640	4640	6120	6120	1250	10110	2820	8290	2290	3190
840	1500	1890	1360	1500	1060	1110	4420	4420	5890	5890	1480	9810	3010	7950	2240	3070
630	1600	1570	1520	1600	1020	1240	4230	4230	5640	5640	1690	9500	3200	7610	2170	2960
420	1650	2020	1590	1630	1000	1280	4070	4070	5370	5370	1810	9190	3300	7260	2040	2880
210	1650	2650	1450	1670	1060	1330	3890	3890	5030	5030	1770	8860	3110	6900	1890	2780
C	1700	2060	1380	1680	1060	1350	3740	3740	4680	4680	1180	8480	2600	6540	1790	2630

HEAVY GUIDED MISSILE 500 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED			
								NEG	EMER	NEG	EMER	NEG	
5040	3830	3830	0	0	0	0	30030	20200	13140	10570	6630	4760	5040
4830	4260	4260	0	0	0	0	30060	20250	13220	10670	6790	4970	4830
4620	4590	4590	0	0	0	0	30090	20300	13530	10760	6930	5160	4620
4410	4900	4900	0	0	0	0	30130	20340	13650	10850	7070	5340	4410
4200	5210	5210	0	0	0	0	30160	20390	13790	10930	7190	5510	4200
3990	5550	5550	0	0	0	0	30180	20430	13960	11010	7310	5670	3990
3780	6010	6010	0	0	0	0	30210	20470	14210	11090	7420	5810	3780
3570	6460	6460	0	0	0	0	30240	20510	14580	11160	7520	5940	3570
3360	7100	7100	0	0	0	0	30260	20540	14740	11220	7620	6060	3360
3150	7360	7360	0	0	0	0	30280	20580	14720	11280	7710	6170	3150
2940	8500	8500	0	0	0	0	30300	20610	14630	11340	7790	6270	2940
2730	8520	8520	0	0	0	0	30320	20640	14470	11390	7870	6370	2730
2520	8450	8450	0	0	0	0	30340	20660	14230	11440	7940	6450	2520
2310	8310	8310	0	0	0	0	30360	20690	13930	11480	8000	6530	2310
2100	8130	8130	810	810	1840	0	30370	20710	13920	11520	8060	6600	2100
1890	7930	7930	1270	1270	2600	0	30390	20730	13950	11560	8110	6670	1890
1680	7690	7690	2090	2090	3060	0	30420	20750	13980	11590	8160	6720	1680
1470	7430	7430	2240	2240	3400	0	30410	20770	14000	11620	8200	6770	1470
1260	7170	7170	2100	2100	3670	1280	30420	20780	14020	11640	8230	6810	1260
1050	6890	6890	1970	1970	3910	1780	30430	20790	14040	11670	8260	6850	1050
840	6590	6590	1890	1890	4060	2050	30440	20800	14050	11680	8290	6880	840
630	6270	6270	1840	1840	4120	2250	30110	20580	13910	11570	8220	6830	630
420	5940	5940	1810	1810	4090	2360	29250	19990	13520	11240	7990	6640	420
210	5600	5600	1780	1780	3940	2210	28380	19400	13120	10910	7760	6460	210
0	5260	5260	1750	1780	3740	1810	27510	18810	12720	10580	7520	6260	0

HOBfs = 437 HOBopt = 421

HEAVY GUIDED MISSILE 1000 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY					RADAR	
															ANT	FIXED
4360	C	0	0	0	C	0	0	0	4200	4200	0	11810	0	0	0	0
4055	0	0	0	0	C	0	0	0	5310	5310	0	12170	0	0	0	0
5830	0	0	0	0	C	0	C	0	6270	6270	C	12560	0	0	0	0
5565	C	0	0	0	C	0	0	1410	1410	7350	7350	0	13000	0	0	0
5300	0	0	0	0	C	0	1890	1890	8060	8060	0	13520	0	0	0	0
5025	0	C	0	0	C	0	2920	2920	8530	8530	C	15870	0	0	0	0
4770	C	0	0	0	C	0	4140	4140	8970	8970	0	16220	0	0	0	0
4505	C	0	0	0	0	0	4940	4940	9140	9140	C	16420	0	0	0	0
4240	0	0	0	0	C	0	5800	5800	9270	9270	0	16270	0	0	0	0
3975	0	C	C	0	0	0	6280	6280	9400	9400	0	16100	0	0	0	0
3710	0	0	0	0	C	0	6720	6720	9390	9390	0	15860	0	13190	0	0
3445	0	0	C	0	C	0	6910	6910	9360	9360	0	15590	0	13360	0	0
3180	C	0	0	0	C	0	7010	7010	9330	9330	C	15310	0	13320	0	0
2915	0	0	0	0	C	0	7020	7020	9210	9210	C	15020	490	13220	0	4710
2650	0	0	0	0	0	0	6930	6930	9000	9000	0	14710	1420	12890	0	4770
2385	C	0	0	0	C	0	6750	6790	8780	8780	0	14380	2130	12530	0	4940
2120	0	820	C	0	0	0	6570	6570	8530	8530	0	14020	2730	12150	2990	4870
1855	430	1320	C	250	C	0	6340	6340	8270	8270	550	13600	3120	11760	3010	4750
1590	1050	1630	0	1000	730	730	6080	6080	7970	7970	1260	12150	3430	11360	3000	4600
1325	1370	1650	1200	1330	1390	1390	5810	5810	7680	7680	1650	12740	3720	10950	2960	4410
1060	1750	2010	1750	1750	1240	1340	5560	5560	7400	7400	1950	12360	3970	10500	2920	4220
795	2000	2130	2000	2000	1290	1310	5290	5290	7100	7100	2220	11580	4220	10040	2820	4070
530	2100	2200	2100	2100	1250	1400	5110	5110	6760	6760	2390	11580	4360	9580	2660	3940
265	1910	2250	1910	1910	1230	1480	4910	4910	6350	6350	2330	11160	4110	9110	2430	3810
C	1850	2270	1640	1850	1210	1500	4700	4700	5920	5920	1560	10650	3430	8630	2290	3650

HEAVY GUIDED MISSILE 1000 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
							NEG	EMER	NEG	EMER	NEG	EMER	
6360	5870	5870	0	0	0	0	41770	27300	17900	14490	9260	6870	6360
6095	6320	6320	0	0	0	0	41810	27360	17990	14600	9440	7110	6095
5830	6700	6700	0	0	0	0	41850	27410	19490	14710	9610	7320	5830
5565	7070	7070	0	0	0	0	41890	27470	19570	14810	9760	7530	5565
5300	7480	7480	0	0	0	0	41920	27520	19670	14910	9910	7720	5300
5035	7940	7940	0	0	0	0	41950	27570	19790	15000	10040	7890	5035
4770	8610	8610	0	0	0	0	41990	27620	19930	15090	10170	8050	4770
4505	9620	9620	0	0	0	0	42020	27660	20130	15170	10290	8210	4505
4240	10270	10270	0	0	0	0	42040	27700	20170	15240	10410	8350	4240
3975	10570	10570	0	0	0	0	42070	27740	20060	15320	10510	8480	3975
3710	11590	11590	0	0	0	0	42090	27780	19890	15380	10610	8590	3710
3445	11600	11600	0	0	0	0	42120	27810	19630	15440	10690	8700	3445
3180	11510	11510	0	0	0	0	42140	27850	19280	15500	10780	8800	3180
2915	11330	11330	0	0	0	0	42160	27870	18840	15550	10850	8900	2915
2650	11090	11090	1010	1010	2370	0	42170	27900	18810	15600	10920	8980	2650
2385	10810	10810	1590	1590	3420	0	42190	27920	18840	15640	10980	9050	2385
2120	10480	10480	2640	2640	4040	0	42200	27950	18870	15680	11030	9120	2120
1855	10130	10130	2820	2820	4480	0	42220	27960	18900	15710	11080	9180	1855
1590	9760	9760	2650	2650	4840	1680	42230	27980	18930	15740	11120	9230	1590
1325	9380	9380	2480	2480	5160	2350	42240	28000	18950	15770	11160	9270	1325
1060	8960	8960	2380	2380	5360	2710	42240	28010	18960	15790	11190	9300	1060
795	8510	8510	2320	2320	5440	2970	41780	27710	19770	15630	11080	9220	795
530	8050	8050	2280	2280	5390	3120	40900	27130	18380	15310	10860	9050	530
265	7580	7580	2240	2240	5200	2910	40030	26550	17990	14990	10640	8860	265
0	7110	7110	2200	2200	4940	2390	39150	25960	17590	14660	10410	8670	0

HOBfs = 550 HOBopt = 530

HEAVY GUIDED MISSILE 2000 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
6640	0	0	0	0	0	0	0	0	3980	3980	0	12740	0	0	0	0
6555	0	0	0	0	0	0	0	0	4810	4810	0	13120	0	0	0	0
6270	0	0	0	0	0	0	0	0	5800	5800	0	12540	0	0	0	0
5515	0	0	0	0	0	0	2120	2120	6530	6930	0	14020	0	0	0	0
5700	0	0	0	0	0	0	2180	2180	7890	7890	0	14590	0	0	0	0
5415	0	0	0	0	0	0	2430	2430	8860	8860	0	17110	0	0	0	0
5130	0	0	0	0	0	0	3440	3440	9290	9290	0	17480	0	0	0	0
4845	0	0	0	0	0	0	4860	4860	9760	9760	0	17690	0	0	0	0
4560	0	0	0	0	0	0	5670	5670	9910	9910	0	17520	0	0	0	0
4215	0	0	0	0	0	0	6480	6480	10030	10030	0	17330	0	0	0	0
3990	0	0	0	0	0	0	6930	6930	10080	10080	0	17070	0	14430	0	0
3705	0	0	0	0	0	0	7310	7310	10040	10040	0	16780	0	14610	0	0
3420	0	0	0	0	0	0	7450	7450	9970	9970	0	16490	0	14560	0	0
3135	0	0	0	0	0	0	7490	7490	9900	9900	0	16170	560	14450	0	5340
2850	0	0	0	0	0	0	7430	7430	9710	9710	0	15840	1570	14090	0	5300
2565	0	0	0	0	0	0	7300	7300	9470	9470	0	15490	2340	13700	0	5400
2280	0	530	0	0	0	0	7090	7090	9220	9220	0	15100	2990	13280	3070	5380
1995	0	1220	0	0	0	0	6840	6840	8940	8940	610	14650	3410	12850	3230	5250
1710	970	1600	0	500	790	790	6560	6560	8630	8630	1380	14160	3750	12420	3230	5080
1425	1350	1660	1320	1320	1500	1500	6280	6280	8300	8300	1810	13720	4060	11970	3190	4890
1140	1960	2040	1960	1960	1440	1440	6000	6000	8000	8000	2140	13310	4350	11480	3140	4680
855	2190	2150	2150	2150	1390	1390	5720	5720	7680	7680	2440	12900	4610	10970	3040	4510
570	2300	2300	2300	2300	1350	1440	5510	5510	7300	7300	2610	12480	4770	10470	2880	4370
285	2050	2320	2050	2050	1320	1520	5280	5280	6880	6880	2550	12020	4490	9960	2650	4230
0	1950	2330	1750	1900	1290	1550	5070	5070	6410	6410	1700	11510	3750	9430	2500	4050

HEAVY GUIDED MISSILE 2000 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
							NEG	EMER	NEG	EMER	NEG	EMER	
6840	6710	6710	0	0	0	0	46460	30020	19770	16050	10310	7730	6840
6555	7160	7160	0	0	0	0	46500	30090	19860	16170	10490	7970	6555
6270	7560	7560	0	0	0	0	46540	30150	21840	16280	10670	8200	6270
5985	7950	7950	0	0	0	0	46580	30210	21910	16390	10830	8410	5985
5700	8390	8390	0	0	0	0	46610	30260	22000	16490	10980	8600	5700
5415	8910	8910	0	0	0	0	46650	30310	22080	16580	11130	8790	5415
5130	9680	9680	0	0	0	0	46680	30360	22180	16670	11260	8960	5130
4845	10830	10830	0	0	0	0	46710	30410	22300	16760	11390	9110	4845
4560	11540	11540	0	0	0	0	46740	30450	22280	16840	11500	9260	4560
4275	11860	11860	0	0	0	0	46760	30500	22130	16910	11610	9390	4275
3990	12790	12790	0	0	0	0	46790	30530	21920	16980	11710	9520	3990
3705	12800	12800	0	0	0	0	46810	30570	21620	17050	11810	9630	3705
3420	12700	12700	0	0	0	0	46830	30600	21230	17110	11890	9740	3420
3135	12500	12500	0	0	0	0	46850	30630	20740	17160	11970	9830	3135
2850	12240	12240	1100	1100	2660	0	46870	30660	20720	17210	12040	9920	2850
2565	11930	11930	1720	1720	3750	0	46890	30690	20760	17260	12110	10000	2565
2280	11560	11560	2840	2840	4420	0	46900	30710	20790	17300	12160	10070	2280
1995	11170	11170	3040	3040	4900	0	46920	30730	20820	17330	12210	10130	1995
1710	10770	10770	2850	2850	5290	1840	46930	30750	20850	17360	12260	10180	1710
1425	10340	10340	2670	2670	5640	2570	46940	30760	20870	17390	12290	10220	1425
1140	9870	9870	2560	2560	5860	2960	46950	30770	20880	17410	12320	10260	1140
855	9380	9380	2500	2500	5950	3250	46440	30450	20670	17230	12210	10170	855
570	8870	8870	2460	2460	5890	3410	45580	29880	20290	16920	12000	10000	570
285	8340	8340	2420	2420	5680	3180	44710	29320	19910	16610	11780	9820	285
0	7820	7820	2370	2370	5400	2610	43840	28750	19530	16290	11550	9640	0

HOBfs = 693 HOBopt = 667

HEAVY GUIDED MISSILE 5000 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
8840	0	0	0	0	0	0	0	0	8830	6830	0	15990	0	0	0	0
8260	0	0	0	0	0	0	0	0	8020	8020	0	16470	0	0	0	0
7520	0	0	0	0	0	0	0	0	9340	9340	0	17000	0	0	0	0
7560	0	0	0	0	0	0	2530	2530	10620	10620	0	17600	0	0	0	0
7200	0	0	0	0	0	0	3980	3980	11190	11190	0	18300	0	0	0	0
6840	0	0	0	0	0	0	5410	5410	11740	11740	0	21490	0	0	0	0
6480	0	0	0	0	0	0	6620	6620	12220	12220	0	21570	0	0	0	0
6120	0	0	0	0	0	0	7680	7680	12450	12450	0	22270	0	0	0	0
5760	0	0	0	0	0	0	8430	8430	12650	12650	0	22070	0	0	0	0
5400	0	0	0	0	0	0	9170	9170	12870	12870	0	21830	0	0	0	0
5040	0	0	0	0	0	0	9370	9370	12860	12860	0	21510	0	18980	0	0
4680	0	0	0	0	0	0	9530	9530	12850	12850	0	21140	0	19250	0	0
4320	0	0	0	0	0	0	9550	9550	12850	12850	0	20770	0	19190	0	0
3960	0	0	0	0	0	0	9520	9520	12540	12540	0	20370	680	19060	0	7940
3600	0	0	0	0	0	0	9420	9420	12280	12280	0	19950	2020	18580	0	8000
3240	0	0	0	0	0	0	9240	9240	11990	11990	0	15510	3050	18070	0	7870
2880	0	0	0	0	0	0	8560	8560	11680	11680	0	19020	3920	17510	4180	7680
2520	0	300	0	0	0	0	8650	8650	11340	11340	770	18450	4480	16950	4140	7380
2160	0	1330	0	0	580	980	8310	8310	10970	10970	1800	17840	4940	16380	4100	7010
1800	1720	1750	1720	1720	1690	1890	7880	7880	10550	10550	2370	17280	5350	15780	4040	6670
1440	2580	2580	2580	2580	1810	1810	7580	7580	10150	10150	2810	16760	5720	15130	3960	6400
1080	2850	2850	2850	2850	1750	1750	7230	7230	9750	9750	3220	16240	6070	14470	3850	6170
720	3020	3020	3020	3020	1700	1700	6930	6930	9300	9300	3440	15700	6280	13800	3670	6000
360	2750	2750	2750	2750	1660	1670	6630	6630	8740	8740	3360	15130	5920	13130	3430	5810
0	2360	2530	2360	2360	1620	1700	6390	6390	8190	8190	2250	14490	4940	12430	3260	5570

HEAVY GUIDED MISSILE 5000 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
							NEG	EMER	NEG	EMER	NEG	EMER	
8640	9840	9840	0	0	0	0	64500	40240	26860	21990	14280	10990	8640
8280	10300	10300	0	0	0	0	64540	40320	26970	22130	14490	11260	8280
7920	10740	10740	0	0	0	0	64590	40390	27080	22260	14690	11520	7920
7560	11220	11220	0	0	0	0	64630	40460	30530	22390	14880	11760	7560
7200	11780	11780	0	0	0	0	64670	40530	30550	22510	15060	11980	7200
6840	12480	12480	0	0	0	0	64710	40590	30540	22620	15230	12190	6840
6480	13530	13530	0	0	0	0	64750	40650	30460	22720	15380	12390	6480
6120	15250	15250	0	0	0	0	64780	40700	30280	22820	15530	12570	6120
5760	16330	16330	0	0	0	0	64820	40760	30030	23140	15670	12740	5760
5400	16700	16700	0	0	0	0	64850	40800	29760	23210	15800	12900	5400
5040	17310	17310	0	0	0	0	64880	40850	29410	23150	15910	13040	5040
4680	17290	17290	0	0	0	0	64900	40890	28980	23160	16020	13170	4680
4320	17160	17160	0	0	0	0	64930	40930	28420	23230	16120	13300	4320
3960	16910	16910	0	0	0	0	64950	40970	27940	23300	16220	13410	3960
3600	16560	16560	1360	1360	3290	0	64970	41000	27990	23350	16300	13510	3600
3240	16140	16140	2140	2140	4900	0	64990	41030	28030	23410	16380	13600	3240
2880	15650	15650	3570	3570	5800	0	65010	41060	28070	23450	16440	13680	2880
2520	15110	15110	3820	3820	6440	0	65020	41080	28100	23500	16500	13750	2520
2160	14560	14560	3600	3600	6960	2400	65040	41100	28130	23530	16550	13810	2160
1800	13970	13970	3370	3370	7420	3370	65050	41120	28160	23560	16600	13860	1800
1440	13330	13330	3230	3230	7720	3890	65060	41140	28180	23590	16630	13910	1440
1080	12650	12650	3150	3150	7840	4280	64490	40780	27950	23400	16510	13820	1080
720	11940	11940	3090	3090	7770	4490	63730	40310	27630	23130	16330	13670	720
360	11210	11210	3040	3040	7490	4200	62960	39820	27300	22860	16150	13520	360
0	10490	10490	2980	2980	7110	3440	62190	39340	26970	22590	15950	13360	0

HOBfs = 940 HOBopt = 906

AIR DELIVERED WEAPON 5 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR		
														ANT	FIXED	FLOAT
560	0	310	0	0	0	0	0	420	310	450	0	1750	0	0	0	0
520	0	410	0	0	0	0	0	500	450	530	0	1800	0	0	0	0
480	0	490	0	0	0	0	0	570	560	590	0	1860	0	0	0	0
440	0	560	0	110	0	0	0	630	670	670	0	1930	0	0	0	0
400	0	610	0	280	0	0	270	680	770	770	0	2000	0	0	0	0
360	160	660	0	370	0	0	290	720	900	900	0	2360	0	0	0	0
320	250	710	0	450	0	0	410	760	1060	1060	0	2410	0	0	0	0
280	370	740	0	510	0	0	570	800	1140	1140	0	2450	0	0	0	0
240	440	780	0	560	0	0	700	830	1210	1210	0	2430	0	0	0	0
200	490	810	220	600	0	100	820	860	1240	1240	0	2410	0	0	0	0
160	540	840	310	640	0	240	900	900	1270	1270	0	2370	0	1340	0	0
120	580	860	370	670	0	310	980	980	1300	1300	0	2330	0	1360	0	0
80	610	890	420	700	0	370	1010	1010	1290	1290	0	2290	0	1360	0	0
40	640	910	460	720	0	420	1020	1020	1290	1290	0	2250	40	1350	0	0
0	660	930	500	750	160	460	1010	1010	1280	1280	0	2200	140	1320	0	0
360	690	940	530	770	230	490	980	980	1250	1250	0	2150	210	1280	0	0
320	710	960	550	780	290	520	940	1000	1220	1220	0	2100	270	1240	0	0
280	720	970	570	800	330	540	910	1010	1180	1180	50	2040	320	1200	0	230
240	740	980	590	810	360	560	870	1020	1140	1140	130	1970	350	1160	300	300
200	750	990	610	820	380	570	840	1030	1100	1100	170	1910	380	1120	330	340
160	760	1000	620	830	400	590	800	1040	1060	1060	200	1850	400	1070	330	340
120	770	1000	630	840	410	600	800	1040	1010	1050	230	1790	430	1030	330	340
80	770	1000	630	840	420	600	810	1050	960	1060	240	1730	450	980	320	320
40	730	970	590	800	390	560	770	1010	900	1020	240	1670	420	930	290	300
0	730	970	590	800	390	560	770	1010	840	1020	160	1600	350	880	270	280

AIR DELIVERED WEAPON 5 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED			
								NEG	EMER	NEG	EMER	NEG	
960	0	460	0	0	0	0	2730	2060	1960	1350	1580	1000	960
920	0	540	0	0	0	0	2740	2080	1970	1380	1610	1040	920
880	0	600	0	0	0	0	2760	2100	1990	1410	1630	1070	880
840	0	660	0	190	0	0	2770	2110	2010	1430	1650	1100	840
800	210	700	0	320	0	0	2780	2130	2030	1450	1670	1130	800
760	330	750	0	410	0	0	2790	2140	2040	1480	1690	1160	760
720	410	790	0	470	0	0	2800	2160	2060	1500	1710	1180	720
680	470	820	0	530	0	0	2810	2170	2070	1510	1720	1210	680
640	520	850	110	580	0	0	2820	2180	2080	1530	1740	1230	640
600	570	880	250	620	0	0	2830	2190	2090	1550	1750	1250	600
560	610	910	330	660	0	0	2840	2200	2110	1560	1770	1270	560
520	650	930	390	690	0	0	2850	2210	2120	1580	1780	1280	520
480	850	950	440	720	0	0	2850	2220	2130	1590	1790	1300	480
440	880	970	480	740	0	0	2860	2230	2130	1600	1800	1310	440
400	890	990	510	760	0	0	2860	2240	2140	1610	1810	1330	400
360	870	1000	540	780	340	0	2870	2250	2150	1620	1820	1340	360
320	830	1020	560	800	410	0	2870	2250	2160	1630	1820	1350	320
280	790	1030	590	820	450	0	2880	2260	2160	1640	1830	1360	280
240	790	1040	600	830	490	170	2880	2260	2170	1640	1840	1360	240
200	800	1050	620	840	520	240	2890	2270	2170	1650	1840	1370	200
160	810	1050	630	850	550	280	2890	2270	2170	1650	1850	1380	160
120	820	1060	640	850	560	300	2890	2270	2180	1660	1850	1380	120
80	820	1060	640	860	550	320	2760	2170	2180	1660	1850	1380	80
40	780	1020	600	820	530	300	2410	1900	2150	1620	1810	1330	40
0	790	1020	610	820	500	240	2150	1630	2150	1620	1810	1340	0

HOBfs = 51 HOBopt = 91

AIR DELIVERED WEAPON 10 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
1265	C	C	0	0	C	0	C	0	880	880	0	2430	0	0	0	0
1210	C	0	C	0	C	0	C	0	1100	1100	C	2500	0	0	0	0
1155	C	100	C	0	C	0	250	330	1300	1300	C	2550	0	0	0	0
1100	C	360	C	0	C	0	450	480	1510	1510	0	2690	0	0	0	0
1045	C	500	0	0	C	0	660	660	1610	1610	0	3080	0	0	0	0
990	C	600	0	0	C	0	850	850	1690	1690	0	3260	0	0	0	0
935	0	680	0	300	C	0	1000	1000	1780	1780	0	3320	0	0	0	0
880	240	750	C	440	C	0	1140	1140	1800	1800	0	3310	0	0	0	0
825	290	810	C	530	C	0	1270	1270	1820	1820	C	3280	0	0	0	0
770	450	870	0	610	C	0	1360	1360	1830	1830	C	3230	0	1890	0	0
715	570	910	260	670	C	140	1400	1400	1830	1820	C	3180	0	1960	0	0
660	630	950	380	730	C	310	1430	1430	1820	1820	0	3120	0	1970	0	0
605	680	990	460	770	0	400	1420	1420	1810	1810	0	3060	30	1950	0	0
550	730	1020	530	810	C	480	1400	1400	1770	1770	0	3000	180	1910	0	0
495	770	1050	580	850	200	530	1360	1360	1730	1730	0	2930	290	1860	0	0
440	800	1070	620	880	300	580	1310	1310	1680	1680	C	2860	390	1800	0	0
385	830	1090	660	900	370	620	1250	1250	1640	1640	60	2770	450	1740	450	490
330	850	1110	690	930	420	650	1200	1200	1590	1590	180	2680	500	1680	470	510
275	870	1130	710	940	460	670	1150	1170	1530	1530	240	2590	540	1620	480	510
220	880	1140	730	960	490	690	1110	1180	1470	1470	280	2510	580	1550	490	520
165	900	1150	740	970	510	710	1070	1190	1400	1400	330	2430	620	1480	480	500
110	910	1150	750	980	520	720	1030	1200	1330	1330	350	2350	640	1410	450	470
55	870	1120	710	930	490	680	960	1160	1240	1240	340	2260	610	1340	410	440
0	870	1120	710	930	490	680	960	1160	1170	1170	230	2170	510	1270	370	410

AIR DELIVERED WEAPON 10 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED			
								NEG	EMER	NEG	EMER	NEG	
1265	0	0	0	0	0	0	4260	3240	2060	1680	1620	920	1265
1210	0	160	0	0	0	0	4280	3260	2100	1720	1660	990	1210
1155	0	390	0	0	0	0	4290	3280	2130	1760	1700	1060	1155
1100	30	530	0	0	0	0	4310	3300	2160	1790	1730	1110	1100
1045	200	630	0	0	0	0	4320	3320	2180	1820	1770	1160	1045
990	360	710	0	150	0	0	4330	3340	2210	1850	1800	1210	990
935	500	780	0	360	0	0	4340	3350	2230	1880	1830	1250	935
880	620	850	0	480	0	0	4360	3370	2260	1910	1860	1290	880
825	740	900	0	570	0	0	4370	3380	2280	1930	1880	1330	825
770	860	950	80	640	0	0	4380	3390	2300	1960	1900	1360	770
715	1260	1260	300	700	0	0	4390	3400	2310	1980	1930	1390	715
660	1320	1320	400	750	0	0	4390	3420	2330	2000	1950	1420	660
605	1340	1340	480	800	0	0	4400	3430	2340	2010	1960	1440	605
550	1330	1330	540	840	0	0	4410	3440	2360	2030	1980	1460	550
495	1300	1300	590	870	480	0	4420	3440	2370	2040	1990	1480	495
440	1250	1250	640	900	580	0	4420	3450	2380	2060	2010	1500	440
385	1180	1180	670	920	650	0	4430	3460	2390	2070	2020	1520	385
330	1120	1170	700	950	710	220	4430	3460	2400	2080	2030	1530	330
275	1080	1190	720	960	750	340	4440	3470	2410	2080	2040	1540	275
220	1040	1200	740	980	790	390	4440	3470	2410	2090	2040	1550	220
165	1000	1210	760	990	800	440	4440	3480	2420	2100	2050	1560	165
110	970	1220	770	1000	790	460	4220	3300	2400	1990	2050	1560	110
55	930	1180	730	950	770	430	3790	2960	2380	1820	2020	1520	55
0	930	1180	730	960	730	350	3350	2620	2380	1820	2020	1520	0

HOBfs = 67 HOBopt = 114

AIR DELIVERED WEAPON 20 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
1750	C	0	0	C	C	0	C	0	1070	1070	C	2180	0	0	0	0
1680	C	0	0	C	C	0	C	0	1240	1240	C	3270	0	0	0	0
1610	C	0	0	C	C	0	C	0	1350	1350	C	3370	0	C	0	0
1540	C	0	0	0	C	C	C	0	1430	1430	C	3480	0	0	0	0
1470	C	0	C	0	C	C	820	820	1580	1580	C	3610	0	0	0	0
1400	C	C	0	C	0	0	950	950	1860	1860	C	4110	0	0	0	0
1330	C	0	C	0	C	0	1050	1050	2010	2010	C	4360	0	C	0	0
1260	C	380	0	0	C	0	1150	1150	2160	2160	C	4440	0	0	0	0
1190	C	560	0	0	0	0	1240	1240	2300	2300	C	4440	0	0	0	0
1120	C	650	C	0	C	0	1390	1390	2390	2390	C	4400	0	0	0	0
1050	50	750	0	350	C	0	1620	1620	2440	2440	C	4350	0	2560	0	0
980	550	880	C	540	C	0	1740	1740	2470	2470	0	4280	0	2770	0	0
910	530	950	0	650	C	0	1810	1810	2490	2490	0	4210	0	2790	0	0
840	640	1010	280	740	C	140	1860	1860	2460	2460	C	4130	0	2770	0	0
770	720	1070	440	810	C	360	1860	1860	2420	2420	C	4050	160	2750	0	0
700	750	1110	540	870	C	480	1830	1830	2380	2380	C	3570	340	2680	0	0
630	840	1160	620	930	120	570	1750	1790	2330	2330	C	3880	480	2600	0	0
560	850	1190	650	970	310	640	1740	1740	2260	2260	0	3780	550	2520	630	740
490	930	1220	740	1010	410	700	1680	1680	2190	2190	150	3670	670	2440	650	740
420	970	1250	780	1040	450	740	1610	1610	2110	2110	280	3550	730	2360	660	740
350	950	1270	810	1060	540	780	1550	1550	2040	2040	350	3440	780	2280	670	750
280	1020	1290	840	1080	580	800	1450	1490	1560	1960	410	3340	840	2190	680	740
210	1030	1300	860	1100	610	830	1440	1440	1870	1870	470	3240	890	2090	660	720
140	1040	1310	880	1110	630	840	1380	1380	1770	1770	500	3140	910	2000	620	690
70	1010	1280	830	1070	590	800	1320	1320	1690	1690	450	3030	860	1900	560	640
0	1010	1280	840	1070	600	800	1280	1330	1580	1580	330	2900	720	1800	530	600

AIR DELIVERED WEAPON 20 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY		UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED				
							NEG	EMER	NEG	EMER	NEG	EMER	
1750	0	0	0	0	0	0	6460	4850	3060	2460	1440	370	1750
1680	0	0	0	0	0	0	6480	4870	3100	2510	1520	610	1680
1610	220	220	0	0	0	0	6500	4900	3130	2560	1590	780	1610
1540	340	340	0	0	0	0	6510	4920	3170	2600	1660	910	1540
1470	460	460	0	0	0	0	6530	4940	3200	2640	1720	1020	1470
1400	620	620	0	0	0	0	6550	4960	3230	2680	1780	1110	1400
1330	780	780	0	0	0	0	6560	4980	3260	2710	1830	1200	1330
1260	920	920	0	0	0	0	6570	5000	3290	2750	1880	1270	1260
1190	1040	1040	0	0	0	0	6590	5010	3320	2780	1930	1340	1190
1120	1170	1170	0	240	0	0	6600	5030	3340	2810	1970	1390	1120
1050	1560	1560	0	460	0	0	6610	5050	3360	2830	2200	1450	1050
980	1650	1650	0	590	0	0	6620	5060	3380	2860	2270	1500	980
910	1960	1960	0	690	0	0	6630	5070	3400	2880	2270	1540	910
840	1970	1970	330	780	0	0	6640	5090	3420	2900	2240	1580	840
770	1960	1960	470	850	0	0	6650	5100	3440	2920	2200	1610	770
700	1920	1920	570	910	610	0	6660	5110	3450	2940	2150	1650	700
630	1870	1870	650	960	750	0	6660	5120	3470	2960	2180	1670	630
560	1800	1800	730	1000	870	0	6670	5120	3480	2970	2190	1700	560
490	1720	1720	760	1030	950	0	6680	5130	3490	2980	2210	1720	490
420	1660	1660	800	1060	1020	370	6680	5140	3500	2990	2230	1740	420
350	1600	1600	830	1090	1090	500	6690	5140	3510	3000	2240	1750	350
280	1540	1540	860	1110	1120	570	6690	5150	3510	3010	2250	1770	280
210	1480	1480	880	1130	1140	630	6690	5150	3520	3020	2260	1780	210
140	1420	1420	890	1140	1130	650	6290	4840	3310	2840	2260	1740	140
70	1360	1360	850	1100	1090	610	5780	4450	3040	2610	2230	1700	70
0	1300	1350	860	1100	1030	500	5280	4060	2780	2380	2230	1710	0

HOBfs = 81 HOBopt = 144

AIR DELIVERED WEAPON 50 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
2300	C	C	C	C	C	C	C	0	1250	1250	C	4410	0	0	0	0
2200	C	C	C	C	C	C	C	0	1270	1270	C	4550	0	0	0	0
2100	C	C	C	C	C	C	C	0	1770	1770	C	4700	0	0	0	0
2000	C	0	0	0	C	0	1060	1060	2090	2090	C	4880	0	0	0	0
1900	C	0	0	C	C	0	1110	1110	2370	2370	C	5580	0	0	0	0
1800	C	C	0	0	C	0	1150	1150	2650	2650	C	5930	0	0	0	0
1700	C	C	C	0	C	0	1200	1200	2950	2950	C	6030	0	0	0	0
1600	C	C	C	0	C	0	1610	1610	3180	3180	C	6020	0	0	0	0
1500	C	0	C	C	C	0	1940	1940	3300	3300	C	5950	0	0	0	0
1400	C	530	C	0	C	0	2190	2190	3370	3370	C	5870	0	3860	0	0
1300	C	740	C	0	C	0	2350	2350	3380	3380	C	5770	0	4020	0	0
1200	200	850	C	420	C	0	2450	2450	3370	3370	C	5670	0	4030	0	0
1100	520	1010	0	640	C	0	2530	2530	3330	3330	C	5560	70	4000	0	0
1000	650	1110	230	750	C	0	2540	2540	3280	3280	C	5450	370	3920	0	0
900	820	1200	450	900	C	410	2500	2500	3230	3230	C	5330	600	3800	0	0
800	920	1260	640	950	C	580	2430	2430	3150	3150	0	5150	790	3650	0	1100
700	950	1320	750	1060	510	700	2350	2350	3050	3050	120	5040	920	3570	890	1110
600	1060	1370	830	1120	480	790	2250	2250	2950	2950	360	4870	1020	3450	920	1150
500	1110	1410	900	1170	580	860	2140	2140	2830	2830	490	4710	1110	3320	950	1150
400	1150	1440	950	1210	650	910	2050	2050	2710	2710	560	4570	1190	3180	950	1120
300	1180	1470	980	1240	710	940	1960	1960	2590	2590	670	4420	1270	3040	930	1080
200	1200	1480	1010	1260	740	970	1900	1900	2460	2460	720	4270	1320	2900	880	1030
100	1180	1460	970	1220	710	940	1840	1840	2320	2320	710	4120	1240	2750	800	970
C	1180	1470	980	1220	720	940	1770	1770	2180	2180	470	3940	1030	2600	750	900

AIR DELIVERED WEAPON 50 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED			
								NEG	EMER	NEG	EMER	NEG	
2300	510	610	0	0	0	0	10020	7370	4720	3780	2090	1250	2300
2200	840	840	0	0	0	0	10040	7400	4770	3840	2190	1420	2200
2100	1020	1020	0	0	0	0	10070	7430	4810	3900	2290	1570	2100
2000	1170	1170	0	0	0	0	10090	7460	4850	3950	2380	1690	2000
1900	1330	1330	0	0	0	0	10110	7480	4890	4000	2460	1800	1900
1800	1480	1480	0	0	0	0	10120	7510	4930	4050	2530	1900	1800
1700	1620	1620	0	0	0	0	10140	7530	4970	4090	2600	1990	1700
1600	1760	1760	0	0	0	0	10160	7550	5000	4130	2660	2070	1600
1500	1910	1910	0	0	0	0	10170	7570	5030	4170	2720	2150	1500
1400	2760	2760	0	0	0	0	10190	7590	5060	4200	3020	2210	1400
1300	2940	2940	0	130	0	0	10200	7610	5090	4230	3090	2270	1300
1200	2950	2950	0	520	0	0	10210	7620	5110	4260	3080	2330	1200
1100	2910	2910	0	710	0	0	10220	7640	5130	4290	3020	2380	1100
1000	2850	2850	330	840	0	0	10230	7650	5150	4310	2950	2420	1000
900	2780	2780	540	950	980	0	10240	7670	5170	4340	2970	2460	900
800	2700	2700	950	1030	1190	0	10250	7680	5190	4350	3000	2490	800
700	2600	2600	1040	1100	1330	0	10260	7690	5200	4370	3030	2520	700
600	2510	2510	990	1160	1440	460	10260	7700	5220	4390	3050	2550	600
500	2420	2420	920	1210	1540	690	10270	7700	5230	4400	3070	2570	500
400	2320	2320	970	1240	1610	810	10270	7710	5240	4410	3080	2590	400
300	2220	2220	1010	1270	1640	890	10280	7710	5240	4420	3090	2600	300
200	2120	2120	1030	1290	1630	940	9750	7320	4980	4190	2940	2480	200
100	2010	2010	1000	1260	1570	880	9100	6830	4650	3920	2750	2320	100
0	1900	1900	1010	1270	1490	720	8460	6350	4320	3640	2560	2150	0

HOBfs = 121 HOBopt = 195

AIR DELIVERED WEAPON 100 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID RADAR	SEVERE DAMAGE TO BRIDGES		
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				ANT	FIXED	FLOAT	
3000	C	C	0	0	C	C	C	0	1770	1770	0	5420	0	C	0	0	
2875	C	0	0	0	0	0	C	0	2170	2170	C	5590	0	0	0	0	
2750	C	0	C	C	C	0	C	0	2700	2700	0	5760	0	0	0	0	
2625	C	0	0	0	C	0	650	650	3380	3380	C	5960	0	0	0	0	
2500	C	0	0	0	C	0	700	700	3650	3650	C	6190	0	0	0	0	
2375	C	0	0	0	C	0	1490	1490	3910	3910	C	7250	0	0	0	0	
2250	C	0	0	0	C	0	1900	1900	4060	4060	C	7450	0	0	0	0	
2125	C	0	C	0	C	0	2330	2330	4180	4180	C	7610	0	0	0	0	
2000	C	0	0	C	C	0	2720	2720	4290	4290	C	7570	0	0	0	0	
1875	C	0	C	0	C	0	2960	2960	4350	4350	C	7490	0	0	0	0	
1750	C	0	0	0	C	0	3170	3170	4350	4350	C	7390	0	5190	0	0	
1625	C	270	C	C	C	0	3280	3280	4250	4350	C	7260	0	5310	0	0	
1500	C	680	C	0	C	0	3330	3330	4330	4330	C	7130	0	5310	0	0	
1375	C	910	C	240	C	0	3290	3290	4260	4260	C	7000	120	5280	0	0	
1250	510	1070	0	620	C	0	3260	3260	4170	4170	C	6850	510	5160	0	0	
1125	750	1200	180	820	C	0	3180	3180	4070	4070	C	6700	810	5010	0	0	
1000	910	1310	550	970	C	470	3080	3080	3960	3960	0	6530	1060	4860	1110	1410	
875	1020	1400	730	1090	C	670	2980	2980	3850	3850	180	6340	1220	4700	1180	1550	
750	1120	1470	860	1180	440	810	2860	2860	3730	3730	480	6120	1350	4540	1210	1570	
625	1200	1520	950	1250	650	910	2720	2720	3590	3590	650	5930	1470	4370	1220	1560	
500	1260	1570	1020	1300	710	980	2590	2590	3440	3440	770	5750	1580	4190	1240	1530	
375	1300	1600	1080	1340	780	1040	2460	2460	3280	3280	880	5570	1670	4010	1200	1470	
250	1290	1600	1060	1320	780	1030	2380	2380	3120	3120	950	5380	1740	3820	1140	1390	
125	1310	1620	1080	1340	810	1050	2320	2320	2950	2950	920	5180	1640	3630	1040	1330	
C	1320	1620	1090	1350	820	1060	2260	2260	2770	2770	620	4960	1370	3430	980	1230	

AIR DELIVERED WEAPON 100 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
							UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
	PRMPT	DELAY	PRMPT	DELAY			NEG	EMER	NEG	EMER	NEG	EMER	
3000	900	900	0	0	0	0	13920	10010	6400	5100	2910	1800	3000
2875	1340	1340	0	0	0	0	13950	10050	6450	5170	3030	1990	2875
2750	1600	1600	0	0	0	0	13980	10090	6510	5240	3150	2160	2750
2625	1810	1810	0	0	0	0	14000	10110	6560	5300	3250	2310	2625
2500	1990	1990	0	0	0	0	14020	10150	6610	5360	3350	2450	2500
2375	2160	2160	0	0	0	0	14050	10180	6650	5420	3440	2570	2375
2250	2310	2310	0	0	0	0	14070	10200	6700	5470	3520	2680	2250
2125	2490	2490	0	0	0	0	14090	10230	6740	5520	3600	2780	2125
2000	2670	2670	0	0	0	0	14100	10260	6890	5570	3670	2870	2000
1875	2840	2840	0	0	0	0	14120	10280	6960	5610	3740	2950	1875
1750	3990	3990	0	0	0	0	14140	10300	7000	5650	3820	3030	1750
1625	4050	4050	0	0	0	0	14150	10320	6970	5690	3890	3100	1625
1500	4030	4030	0	0	0	0	14170	10340	6900	5720	3900	3160	1500
1375	3960	3960	0	430	0	0	14180	10360	6930	5750	3950	3220	1375
1250	3870	3870	430	720	0	0	14190	10370	6950	5780	3990	3270	1250
1125	3770	3770	700	900	1320	0	14200	10390	6980	5810	4030	3310	1125
1000	3660	3660	1210	1210	1580	0	14210	10400	6990	5830	4060	3350	1000
875	3550	3550	1310	1310	1760	0	14220	10410	7010	5850	4090	3390	875
750	3420	3420	1240	1240	1910	630	14220	10420	7030	5870	4110	3420	750
625	3300	3300	1160	1300	2040	920	14230	10430	7040	5880	4130	3440	625
500	3160	3160	1110	1350	2130	1070	14240	10440	7050	5890	4150	3460	500
375	3020	3020	1110	1390	2170	1180	14240	10440	7060	5900	4160	3480	375
250	2870	2870	1100	1380	2150	1240	13530	9920	6710	5610	3960	3310	250
125	2720	2720	1120	1400	2070	1160	12800	9390	6350	5320	3760	3140	125
0	2570	2570	1130	1400	1970	950	12080	8860	5990	5010	3540	2970	0

HOBfs = 139 HOBopt = 246

AIR DELIVERED WEAPON 200 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES		
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT	
3720	C	0	0	0	C	0	0	0	2740	2740	0	6510	0	0	0	0	0
2565	C	0	0	0	C	0	0	0	2970	2970	0	7120	0	0	0	0	0
3410	C	0	0	0	C	0	0	0	3100	3100	0	7340	0	0	0	0	0
3255	C	0	0	0	C	0	1670	1670	3450	3450	C	7600	0	0	0	0	0
3100	C	0	0	0	C	0	1960	1980	4020	4020	0	7910	0	0	0	0	0
2945	C	0	0	0	C	0	2250	2250	4430	4430	C	9280	0	0	0	0	0
2750	0	0	0	0	0	0	2470	2470	4770	4770	0	9480	0	0	0	0	0
2625	C	0	0	0	C	0	2650	2650	5150	5150	0	9600	0	0	0	0	0
2460	C	0	0	0	C	0	2870	2870	5310	5310	C	9520	0	0	0	0	0
2325	C	0	0	0	C	0	3520	3520	5410	5410	0	9410	0	0	0	0	0
2170	C	0	0	0	C	0	3780	3780	5460	5460	0	9270	0	6930	0	0	0
2015	C	0	0	0	C	0	3980	3980	5450	5450	C	9120	0	7020	0	0	0
1860	0	0	0	0	C	0	4080	4080	5400	5400	0	8950	0	6990	0	0	0
1705	C	600	C	0	C	0	4110	4110	5320	5320	0	8780	260	6950	0	0	0
1550	C	930	0	0	C	0	4050	4050	5230	5230	0	8600	750	6770	0	0	0
1395	540	1150	C	610	C	0	3560	3560	5110	5110	0	8410	1120	6580	0	2150	0
1240	840	1310	210	890	0	0	3860	3860	4970	4970	C	8200	1430	6380	1610	2150	0
1085	1030	1440	640	1070	C	560	3730	3730	4840	4840	290	7550	1640	6180	1600	2130	0
930	1170	1550	850	1210	430	790	3590	3590	4690	4690	660	7690	1800	5970	1580	2130	0
775	1280	1630	550	1310	810	540	3440	3440	4530	4530	870	7450	1950	5750	1590	2080	0
620	1360	1700	1090	1390	780	1050	3260	3260	4340	4340	1030	7230	2090	5520	1570	2020	0
465	1420	1750	1170	1450	860	1130	3120	3120	4160	4160	1170	7000	2220	5270	1530	1970	0
310	1430	1760	1170	1450	880	1130	2990	2990	3960	3960	1250	6770	2290	5030	1460	1910	0
155	1460	1780	1200	1470	920	1170	2860	2860	3730	3730	1220	6530	2160	4780	1360	1830	0
0	1470	1790	1210	1480	930	1180	2790	2790	3460	3460	820	6250	1800	4530	1290	1700	0

AIR DELIVERED WEAPON 200 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY		UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED				
							NEG	EMER	NEG	EMER	NEG	EMER	
3720	1990	1990	0	0	0	0	19400	13550	8740	6990	4210	2840	3720
3565	2390	2390	0	0	0	0	19430	13590	8800	7070	4340	3040	3565
3410	2660	2660	0	0	0	0	19450	13630	8860	7140	4470	3210	3410
3255	2900	2900	0	0	0	0	19480	13670	8920	7220	4580	3370	3255
3100	3120	3120	0	0	0	0	19510	13700	8980	7280	4690	3510	3100
2945	3340	3340	0	0	0	0	19530	13740	9030	7350	4790	3640	2945
2790	3590	3590	0	0	0	0	19550	13770	9080	7410	4880	3760	2790
2635	3930	3930	0	0	0	0	19570	13800	9370	7460	4960	3870	2635
2480	4190	4190	0	0	0	0	19590	13830	9630	7520	5040	3970	2480
2325	4400	4400	0	0	0	0	19610	13850	9680	7570	5120	4070	2325
2170	5580	5580	0	0	0	0	19630	13980	9660	7610	5180	4150	2170
2015	5620	5620	0	0	0	0	19650	13900	9580	7660	5250	4230	2015
1860	5570	5570	0	0	0	0	19660	13920	9450	7690	5300	4300	1860
1705	5470	5470	0	0	0	0	19680	13940	9340	7730	5350	4360	1705
1550	5350	5350	590	590	1240	0	19690	13960	9370	7760	5400	4420	1550
1395	5210	5210	930	930	1790	0	19700	13980	9390	7790	5440	4470	1395
1240	5060	5060	1540	1540	2120	0	19710	13990	9420	7820	5480	4520	1240
1085	4900	4900	1650	1650	2350	0	19720	14010	9440	7840	5510	4560	1085
930	4720	4720	1550	1550	2540	880	19730	14020	9450	7860	5540	4590	930
775	4540	4540	1450	1450	2710	1230	19730	14030	9470	7880	5570	4620	775
620	4350	4350	1390	1460	2820	1420	19740	14030	9480	7890	5580	4640	620
465	4150	4150	1360	1510	2860	1560	19610	13940	9420	7850	5560	4630	465
310	3940	3940	1330	1520	2830	1640	18820	13380	9040	7540	5340	4450	310
155	3730	3730	1310	1540	2730	1530	18020	12820	8670	7220	5130	4270	155
0	3510	3510	1290	1550	2590	1260	17230	12250	8280	6900	4900	4080	0

HOBfs = 332 HOBopt = 310

AIR DELIVERED WEAPON 500 KT

EFFECTS TABLE

(Distances in meters)

	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES	
HOB	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR ANT	FIXED	FLOAT
504C	0	0	0	0	C	C	C	0	2650	2650	0	9390	0	0	0	0
4820	C	0	0	0	C	0	C	0	2860	2860	0	9670	0	0	0	0
462C	0	0	C	0	C	0	C	0	3510	3510	0	9980	0	0	0	0
441C	C	0	0	0	C	0	2050	2050	4350	4350	C	10330	0	0	0	0
420C	C	0	C	0	C	0	2210	2210	5230	5230	C	10750	0	0	0	0
355C	C	0	0	0	C	0	2310	2310	5800	5800	C	12610	0	0	0	0
378C	C	0	0	0	C	0	2400	2400	6400	6400	0	12880	0	0	0	0
257C	C	0	0	0	C	0	2900	2900	6880	6880	C	13030	0	0	0	0
336C	C	0	0	0	C	0	3700	3700	7090	7090	0	12910	0	0	0	0
2150	C	0	0	0	C	0	4520	4520	7280	7280	0	12770	0	C	0	0
2940	C	0	0	0	0	0	4980	4980	7370	7370	0	12580	0	10000	0	0
2720	C	0	0	0	0	0	5280	5280	7340	7340	C	12370	0	10130	0	0
2520	C	0	0	0	C	0	5490	5490	7300	7300	C	12150	0	10090	0	0
2310	C	0	0	0	C	0	5530	5530	7210	7210	C	11920	390	10020	0	0
2100	0	0	0	0	C	0	5450	5450	7110	7110	C	11670	1090	9770	0	3370
1890	C	150	0	0	0	0	5360	5360	6930	6930	0	11410	1620	9490	0	3340
168C	270	1210	0	360	C	0	5210	5210	6740	6740	C	11130	2070	9200	2270	3290
147C	150	1460	0	850	C	0	5030	5030	6520	6520	420	10790	2360	8910	2270	3340
126C	1170	1640	670	1170	580	590	4830	4830	6320	6320	560	10440	2600	8610	2320	3280
105C	1360	1750	570	1360	1100	1100	4640	4640	6120	6120	1250	10110	2820	8290	2290	3190
84C	1500	1890	1260	1500	1060	1110	4430	4430	5890	5890	1480	9810	3010	7950	2240	3070
63C	1600	1970	1520	1600	1020	1240	4230	4230	5640	5640	1690	9500	3200	7610	2170	2960
42C	1650	2020	1590	1630	1000	1280	4070	4070	5370	5370	1810	9190	3300	7260	2040	2880
21C	1650	2050	1450	1670	1060	1330	3890	3890	5030	5030	1770	8860	3110	6900	1890	2780
C	1700	2060	1380	1680	1080	1350	3740	3740	4680	4680	1180	8480	2600	6540	1790	2630

AIR DELIVERED WEAPON 500 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY			UNWARNED EXPOSED	WARNED EXPOSED		WARNED PROTECTED			
								NEG	EMER	NEG	EMER	NEG	
5040	3830	3830	0	0	0	0	30030	20200	13140	10570	6630	4760	5040
4830	4260	4260	0	0	0	0	30060	20250	13220	10670	6790	4970	4830
4620	4590	4590	0	0	0	0	30090	20300	13530	10760	6930	5150	4620
4410	4900	4900	0	0	0	0	30130	20340	13650	10850	7070	5340	4410
4200	5210	5210	0	0	0	0	30160	20390	13790	10930	7190	5510	4200
3990	5550	5550	0	0	0	0	30180	20430	13960	11010	7310	5670	3990
3780	6010	6010	0	0	0	0	30210	20470	14210	11090	7420	5810	3780
3570	6660	6660	0	0	0	0	30240	20510	14580	11160	7520	5940	3570
3360	7100	7100	0	0	0	0	30260	20540	14740	11220	7620	6050	3360
3150	7360	7360	0	0	0	0	30280	20580	14720	11280	7710	6170	3150
2940	8500	8500	0	0	0	0	30300	20610	14630	11340	7790	6270	2940
2730	8520	8520	0	0	0	0	30320	20640	14470	11390	7870	6370	2730
2520	8450	8450	0	0	0	0	30340	20660	14230	11440	7940	6450	2520
2310	8310	8310	0	0	0	0	30360	20690	13930	11480	8000	6530	2310
2100	8130	8130	810	810	1840	0	30370	20710	13920	11520	8060	6600	2100
1890	7930	7930	1270	1270	2600	0	30390	20730	13950	11560	8110	6670	1890
1680	7690	7690	2090	2090	3060	0	30400	20750	13980	11590	8160	6720	1680
1470	7430	7430	2240	2240	3400	0	30410	20770	14000	11620	8200	6770	1470
1260	7170	7170	2100	2100	3670	1280	30420	20780	14020	11640	8230	6810	1260
1050	6890	6890	1970	1970	3910	1780	30430	20790	14040	11670	8260	6850	1050
840	6590	6590	1890	1890	4060	2050	30440	20800	14050	11680	8290	6880	840
630	6270	6270	1840	1840	4120	2250	30110	20580	13910	11570	8220	6830	630
420	5940	5940	1810	1810	4090	2360	29250	19990	13520	11240	7990	6640	420
210	5600	5600	1780	1780	3940	2210	28380	19400	13120	10910	7760	6460	210
0	5260	5260	1750	1780	3740	1810	27510	18810	12720	10580	7520	6260	0

HOBfs = 437 HOBopt = 421

AIR DELIVERED WEAPON 1000 KT

EFFECTS TABLE

(Distances in meters)

	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES		
HOB															RADAR ANT	FIXED	FLOAT
636C	C	0	C	C	C	0	C	0	4200	420C	0	11810	0	0	0	0	0
6C55	C	0	0	0	C	0	C	0	5310	531C	C	1217C	0	0	0	0	0
5E30	C	0	C	C	C	0	C	0	6270	627C	C	1256C	0	0	0	0	0
5565	0	0	0	0	C	0	1410	141C	7250	735C	0	13000	0	0	0	0	0
530C	0	0	0	0	C	0	1890	189C	8C6C	8060	0	13520	0	0	0	0	0
5C35	C	0	C	C	C	0	292C	292C	853C	8530	0	15E7C	0	0	0	0	0
477C	0	0	C	C	C	0	4140	4140	8970	897C	0	16220	0	0	0	0	0
4505	C	0	0	0	C	0	4940	4940	9140	914C	C	1642C	0	0	0	0	0
4240	C	0	0	0	C	0	58C0	5800	9270	927C	C	16270	0	0	0	0	0
3975	C	0	0	C	0	0	6280	628C	940C	940C	C	1610C	0	0	0	0	0
371C	0	0	0	0	C	0	672C	6720	939C	9350	C	15860	0	13190	0	0	0
3445	C	0	C	0	C	0	6910	6910	9360	936C	C	1559C	0	13360	0	0	0
318C	0	0	0	0	0	0	701C	7010	9330	933C	C	15310	0	13320	0	0	0
2915	C	0	0	0	C	0	702C	7020	9210	9210	C	15020	490	13220	0	4710	
265C	C	0	0	0	C	0	6930	6930	9C0C	9000	0	1471C	1420	12890	0	4770	
2385	0	0	0	0	0	0	675C	675C	8780	878C	C	1438C	2130	1253C	0	4940	
2120	C	620	C	0	0	0	657C	657C	8530	8530	0	14020	2730	12150	2990	4870	
1855	43C	1320	0	250	C	0	6340	634C	827C	827C	55C	13600	3120	11760	3010	4750	
159C	105C	1630	C	1000	73C	730	6C8C	6080	7570	7970	1260	1315C	3430	11360	3000	4600	
1325	137C	1650	1200	1320	139C	1390	5810	5810	7680	768C	1650	1274C	3720	10950	2960	4410	
106C	175C	2010	179C	1750	1240	1340	556C	5560	7400	7400	1950	12360	3570	105C0	2920	4220	
755	20CC	2130	20CC	20C0	129C	1310	525C	5250	7100	710C	2230	11580	4220	10040	2820	4070	
530	210C	2200	2100	2100	125C	1400	5110	5110	6760	6760	2390	11580	4360	9580	2660	3940	
265	1910	225C	1910	1910	123C	148C	4910	4910	6350	6350	2330	1116C	4110	9110	2430	3810	
C	185C	227C	164C	1850	1210	15C0	47CC	4700	5920	5920	156C	1C650	3430	8630	2290	3650	

AIR DELIVERED WEAPON 1000 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
							UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
	PRMPT	DELAY	PRMPT	DELAY			NEG	EMER	NEG	EMER	NEG	EMER	
6360	5870	5870	0	0	0	0	41770	27300	17900	14490	9260	6870	6360
6095	6320	6320	0	0	0	0	41810	27360	17990	14600	9440	7110	6095
5830	6700	6700	0	0	0	0	41850	27410	19490	14710	9610	7320	5830
5565	7070	7070	0	0	0	0	41890	27470	19570	14810	9760	7530	5565
5300	7480	7480	0	0	0	0	41920	27520	19670	14910	9910	7720	5300
5035	7940	7940	0	0	0	0	41950	27570	19790	15000	10040	7890	5035
4770	8610	8610	0	0	0	0	41990	27620	19930	15090	10170	8050	4770
4505	9620	9620	0	0	0	0	42020	27660	20130	15170	10290	8210	4505
4240	10270	10270	0	0	0	0	42040	27700	20170	15240	10410	8350	4240
3975	10570	10570	0	0	0	0	42070	27740	20060	15320	10510	8490	3975
3710	11590	11590	0	0	0	0	42090	27780	19890	15380	10610	8590	3710
3445	11600	11600	0	0	0	0	42120	27810	19630	15440	10690	8700	3445
3180	11510	11510	0	0	0	0	42140	27850	19280	15500	10780	8800	3180
2915	11330	11330	0	0	0	0	42160	27870	18840	15550	10850	8900	2915
2650	11090	11090	1010	1010	2370	0	42170	27900	18810	15600	10920	8980	2650
2385	10810	10810	1590	1590	3420	0	42190	27920	18840	15640	10980	9050	2385
2120	10480	10480	2640	2640	4040	0	42200	27950	18870	15680	11030	9120	2120
1855	10130	10130	2820	2820	4480	0	42220	27960	18900	15710	11080	9180	1855
1590	9760	9760	2650	2650	4840	1680	42230	27980	18930	15740	11120	9230	1590
1325	9380	9380	2480	2480	5160	2350	42240	28000	18950	15770	11160	9270	1325
1060	8960	8960	2380	2380	5360	2710	42240	28010	18960	15790	11190	9300	1060
795	8510	8510	2320	2320	5440	2970	41780	27710	18770	15630	11080	9220	795
530	8050	8050	2280	2280	5390	3120	40900	27130	18380	15310	10860	9050	530
265	7580	7580	2240	2240	5200	2910	40030	26550	17990	14990	10640	8860	265
0	7110	7110	2200	2200	4940	2390	39150	25960	17590	14660	10410	8670	0

HOBfs = 550 HOBopt = 530

AIR DELIVERED WEAPON 2000 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES		
															RADAR ANT	FIXED	FLOAT
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY							
6640	0	0	0	0	0	0	0	0	6630	6830	0	15590	0	0	0	0	0
6260	0	0	0	0	0	0	0	0	6020	8020	0	16470	0	0	0	0	0
7920	0	0	0	0	0	0	0	0	5340	9340	0	17000	0	0	0	0	0
7560	0	0	0	0	0	0	2530	2530	10620	10620	0	17600	0	0	0	0	0
7200	0	0	0	0	0	0	3980	3980	11190	11190	0	18300	0	0	0	0	0
6640	0	0	0	0	0	0	5410	5410	11740	11740	0	21450	0	0	0	0	0
6480	0	0	0	0	0	0	6620	6620	12220	12220	0	21970	0	0	0	0	0
6120	0	0	0	0	0	0	7680	7680	12450	12450	0	22270	0	0	0	0	0
5760	0	0	0	0	0	0	8430	8430	12650	12650	0	22070	0	0	0	0	0
5400	0	0	0	0	0	0	5170	5170	12870	12870	0	21830	0	0	0	0	0
5040	0	0	0	0	0	0	5370	5370	12860	12860	0	21510	0	18980	0	0	0
4680	0	0	0	0	0	0	9520	9520	12850	12850	0	21140	0	19250	0	0	0
4320	0	0	0	0	0	0	9550	9550	12850	12850	0	20770	0	19190	0	0	0
3960	0	0	0	0	0	0	9520	9520	12540	12540	0	20370	680	19060	0	7940	0
3600	0	0	0	0	0	0	9420	9420	12280	12280	0	19950	2020	18580	0	8000	0
3240	0	0	0	0	0	0	9240	9240	11990	11990	0	19510	3050	18070	0	7870	0
2880	0	0	0	0	0	0	8960	8960	11680	11680	0	19020	3920	17510	4180	7680	0
2520	0	300	0	0	0	0	8650	8650	11340	11340	770	18450	4480	16950	4140	7380	0
2160	0	1330	0	0	580	980	8310	8310	10970	10970	1800	17840	4940	16380	4100	7010	0
1800	1720	1750	1720	1720	1890	1890	7880	7880	10550	10550	2370	17280	5350	15780	4040	6670	0
1440	2580	2580	2580	2580	1810	1810	7580	7580	10150	10150	2810	16760	5720	15130	3960	6400	0
1080	2850	2850	2850	2850	1750	1750	7230	7230	9750	9750	3220	16240	6070	14470	3850	6170	0
720	3020	3020	3020	3020	1700	1700	6930	6930	9300	9300	3440	15700	6280	13800	3670	6000	0
360	2750	2750	2750	2750	1660	1670	6630	6630	8740	8740	3360	15130	5520	13130	3430	5810	0
C	2360	2530	2360	2360	1620	1700	6350	6390	8190	8150	2250	14450	4940	12430	3260	5570	0

AIR DELIVERED WEAPON 2000 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
	PRMPT	DELAY	PRMPT	DELAY	NEG	EMER	UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
							NEG	EMER	NEG	EMER	NEG	EMER	
6840	6710	6710	0	0	0	0	46460	30020	19770	16050	10310	7730	6840
6555	7160	7160	0	0	0	0	46500	30090	19860	16170	10490	7970	6555
6270	7560	7560	0	0	0	0	46540	30150	21840	16280	10670	8200	6270
5985	7950	7950	0	0	0	0	46580	30210	21910	16390	10830	8410	5985
5700	8390	8390	0	0	0	0	46610	30260	22000	16490	10980	8600	5700
5415	8910	8910	0	0	0	0	46650	30310	22080	16580	11130	8790	5415
5130	9680	9680	0	0	0	0	46680	30360	22180	16670	11260	8960	5130
4845	10830	10830	0	0	0	0	46710	30410	22300	16760	11390	9110	4845
4560	11540	11540	0	0	0	0	46740	30450	22280	16840	11500	9260	4560
4275	11860	11860	0	0	0	0	46760	30500	22130	16910	11610	9390	4275
3990	12790	12790	0	0	0	0	46790	30530	21920	16980	11710	9520	3990
3705	12800	12800	0	0	0	0	46810	30570	21620	17050	11810	9630	3705
3420	12700	12700	0	0	0	0	46830	30600	21230	17110	11890	9740	3420
3135	12500	12500	0	0	0	0	46850	30630	20740	17160	11970	9830	3135
2850	12240	12240	1100	1100	2660	0	46870	30660	20720	17210	12040	9920	2850
2565	11930	11930	1720	1720	3750	0	46890	30690	20760	17260	12110	10000	2565
2280	11560	11560	2840	2840	4420	0	46900	30710	20790	17300	12160	10070	2280
1995	11170	11170	3040	3040	4900	0	46920	30730	20820	17330	12210	10130	1995
1710	10770	10770	2850	2850	5290	1840	46930	30750	20850	17360	12260	10180	1710
1425	10340	10340	2670	2670	5640	2570	46940	30760	20870	17390	12290	10220	1425
1140	9870	9870	2560	2560	5860	2960	46950	30770	20880	17410	12320	10260	1140
855	9380	9380	2500	2500	5950	3250	46440	30450	20670	17230	12210	10170	855
570	8870	8870	2460	2460	5890	3410	45580	29880	20290	16920	12000	10000	570
285	8340	8340	2420	2420	5680	3180	44710	29320	19910	16610	11780	9820	285
0	7820	7820	2370	2370	5400	2610	43840	28750	19530	16290	11550	9640	0

HOBfs = 693 HOBopt = 667

AIR DELIVERED WEAPON 5000 KT

EFFECTS TABLE

(Distances in meters)

HOB	PERSONNEL CASUALTIES IN APC'S		PERSONNEL CASUALTIES IN MDM TANKS		PERSONNEL CASUALTIES IN EARTH SHELTERS		PERSONNEL CASUALTIES IN MULTI-STORY APARTMENTS		PERSONNEL CASUALTIES IN FRAME BUILDINGS		SEV DAM TO SUP DEP	MOD DAM TO PKD HEL	SEV DAM TO ELEC EQUIP	SEV DAM TO OPEN GRID	SEVERE DAMAGE TO BRIDGES
	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY	PRMPT	DELAY				RADAR	
														ANT	
4840	0	0	0	0	0	0	0	0	3580	3980	0	12740	0	0	0
4555	0	0	0	0	0	0	0	0	4810	4810	0	13120	0	0	0
6270	0	0	0	0	0	0	0	0	5800	5800	0	13540	0	0	0
5585	0	0	0	0	0	0	2120	2120	6530	6930	0	14020	0	0	0
5700	0	0	0	0	0	0	2180	2180	7890	7890	0	14590	0	0	0
5415	0	0	0	0	0	0	2430	2430	8660	8860	0	17110	0	0	0
5130	0	0	0	0	0	0	3440	3440	9290	9250	0	17480	0	0	0
4845	0	0	0	0	0	0	4860	4860	9760	9760	0	17650	0	0	0
4560	0	0	0	0	0	0	5670	5670	9910	9910	0	17520	0	0	0
4275	0	0	0	0	0	0	6480	6480	10030	10030	0	17330	0	0	0
3990	0	0	0	0	0	0	6930	6930	10080	10080	0	17070	0	14430	0
3705	0	0	0	0	0	0	7310	7310	10040	10040	0	16780	0	14610	0
3420	0	0	0	0	0	0	7450	7450	9970	9970	0	16450	0	14560	0
3135	0	0	0	0	0	0	7450	7450	9900	9900	0	16170	560	14450	0
2850	0	0	0	0	0	0	7430	7430	9710	9710	0	15840	1570	14090	0
2565	0	0	0	0	0	0	7300	7300	9470	9470	0	15490	2340	13760	0
2280	0	530	0	0	0	0	7090	7090	9220	9220	0	15100	2990	13280	3070
1995	0	1220	0	0	0	0	6840	6840	8940	8940	610	14650	3410	12850	3230
1710	570	1600	0	900	790	790	6560	6560	8630	8630	1380	14160	3750	12420	3230
1425	1250	1860	1220	1320	1500	1500	6280	6280	8300	8300	1810	13720	4060	11970	3190
1140	1660	2040	1560	1560	1440	1440	6000	6000	8000	8000	2140	13310	4350	11480	3140
855	2190	2150	2150	2190	1390	1390	5720	5720	7680	7680	2440	12900	4610	10970	3040
570	2300	2300	2300	2300	1350	1440	5510	5510	7300	7300	2610	12480	4770	10470	2880
285	2050	2320	2090	2050	1320	1520	5280	5280	6680	6880	2550	12020	4490	9960	2650
0	1550	2330	1790	1900	1290	1550	5070	5070	6410	6410	1700	11510	3750	9430	2500

AIR DELIVERED WEAPON 5000 KT

EFFECTS TABLE

(Distances in meters)

HOB	EXPOSED PERSONNEL		PROTECTED PERSONNEL		MODERATE DAMAGE TO WHEELED VEHICLES	MODERATE DAMAGE TO TANKS SEVERE DAMAGE TO ARTILLERY	RADIUS OF SAFETY						HOB
							UNWARNED EXPOSED		WARNED EXPOSED		WARNED PROTECTED		
	PRMPT	DELAY	PRMPT	DELAY			NEG	EMER	NEG	EMER	NEG	EMER	
8640	9840	9840	0	0	0	0	64500	40240	26860	21920	14280	10990	8640
8280	10300	10300	0	0	0	0	64540	40320	26970	22130	14490	11260	8280
7920	10740	10740	0	0	0	0	64590	40390	27080	22260	14690	11520	7920
7560	11220	11220	0	0	0	0	64630	40460	30530	22390	14880	11760	7560
7200	11780	11780	0	0	0	0	64670	40530	30550	22510	15060	11980	7200
6840	12480	12480	0	0	0	0	64710	40590	30540	22620	15230	12190	6840
6480	13530	13530	0	0	0	0	64750	40650	30460	22720	15380	12390	6480
6120	15250	15250	0	0	0	0	64780	40700	30280	22820	15530	12570	6120
5760	16330	16330	0	0	0	0	64820	40760	30030	23140	15670	12740	5760
5400	16700	16700	0	0	0	0	64850	40800	29760	23210	15800	12900	5400
5040	17310	17310	0	0	0	0	64880	40850	29410	23150	15910	13040	5040
4680	17290	17290	0	0	0	0	64900	40890	28980	23160	16020	13170	4680
4320	17160	17160	0	0	0	0	64930	40930	28420	23230	16120	13300	4320
3960	16910	16910	0	0	0	0	64950	40970	27940	23300	16220	13410	3960
3600	16560	16560	1360	1360	3290	0	64970	41000	27990	23350	16300	13510	3600
3240	16140	16140	2140	2140	4900	0	64990	41030	28030	23410	16380	13600	3240
2880	15650	15650	3570	3570	5800	0	65010	41060	28070	23450	16440	13690	2880
2520	15110	15110	3820	3820	6440	0	65020	41080	28100	23500	16500	13750	2520
2160	14560	14560	3600	3600	6960	2400	65040	41100	28130	23530	16550	13810	2160
1800	13970	13970	3370	3370	7420	3370	65050	41120	28160	23560	16600	13860	1800
1440	13330	13330	3230	3230	7720	3890	65060	41140	28180	23590	16630	13910	1440
1080	12650	12650	3150	3150	7840	4280	64490	40780	27950	23400	16510	13820	1080
720	11940	11940	3090	3090	7770	4490	63730	40310	27630	23130	16330	13670	720
360	11210	11210	3040	3040	7490	4200	62960	39820	27300	22860	16150	13520	360
0	10490	10490	2980	2980	7110	3440	62190	39340	26970	22590	15950	13360	0

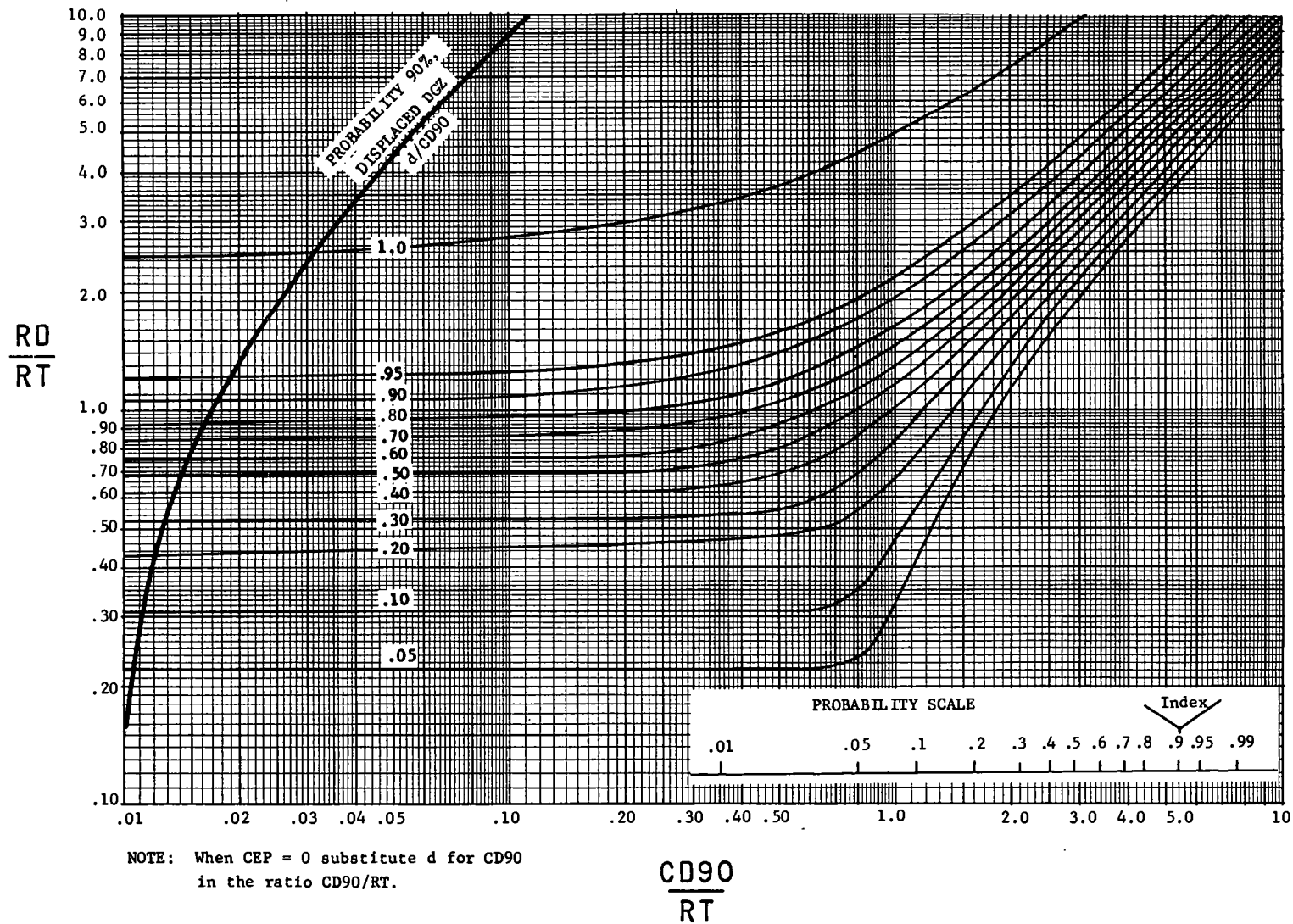
HOBfs = 940 HOBopt = 906

CHAPTER 18

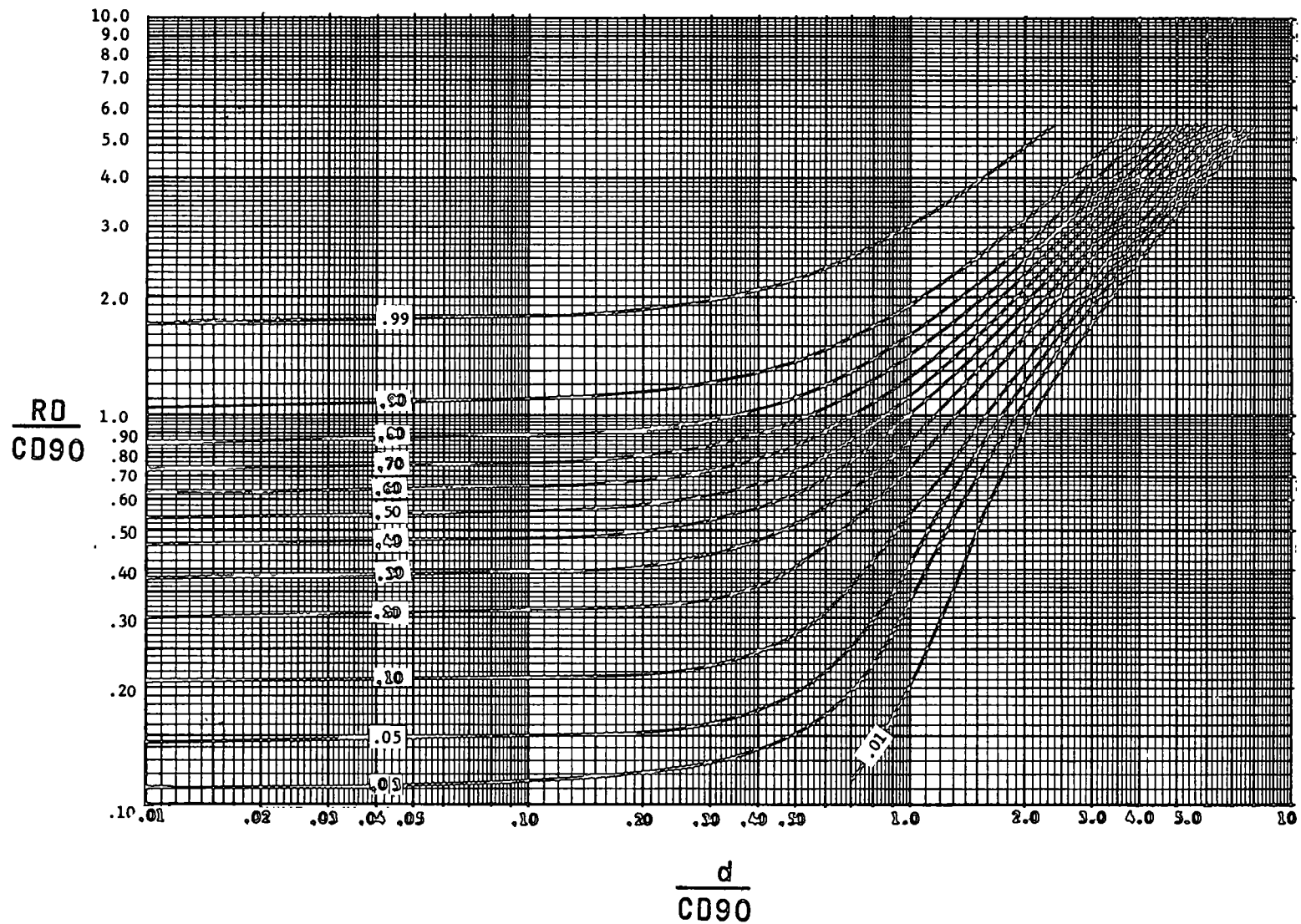
GRAPHS AND TABLES

Area Target Graph.....	387
Point Target Graph.....	388
Point Target Graph Extension	389
CD90 Graph	390
Equivalent Target Table.....	391
Radii of Vulnerability Table.....	392
Radiation Tables.....	393
Transmission Factor Table.....	393

AREA TARGET GRAPH (Variability=20%)

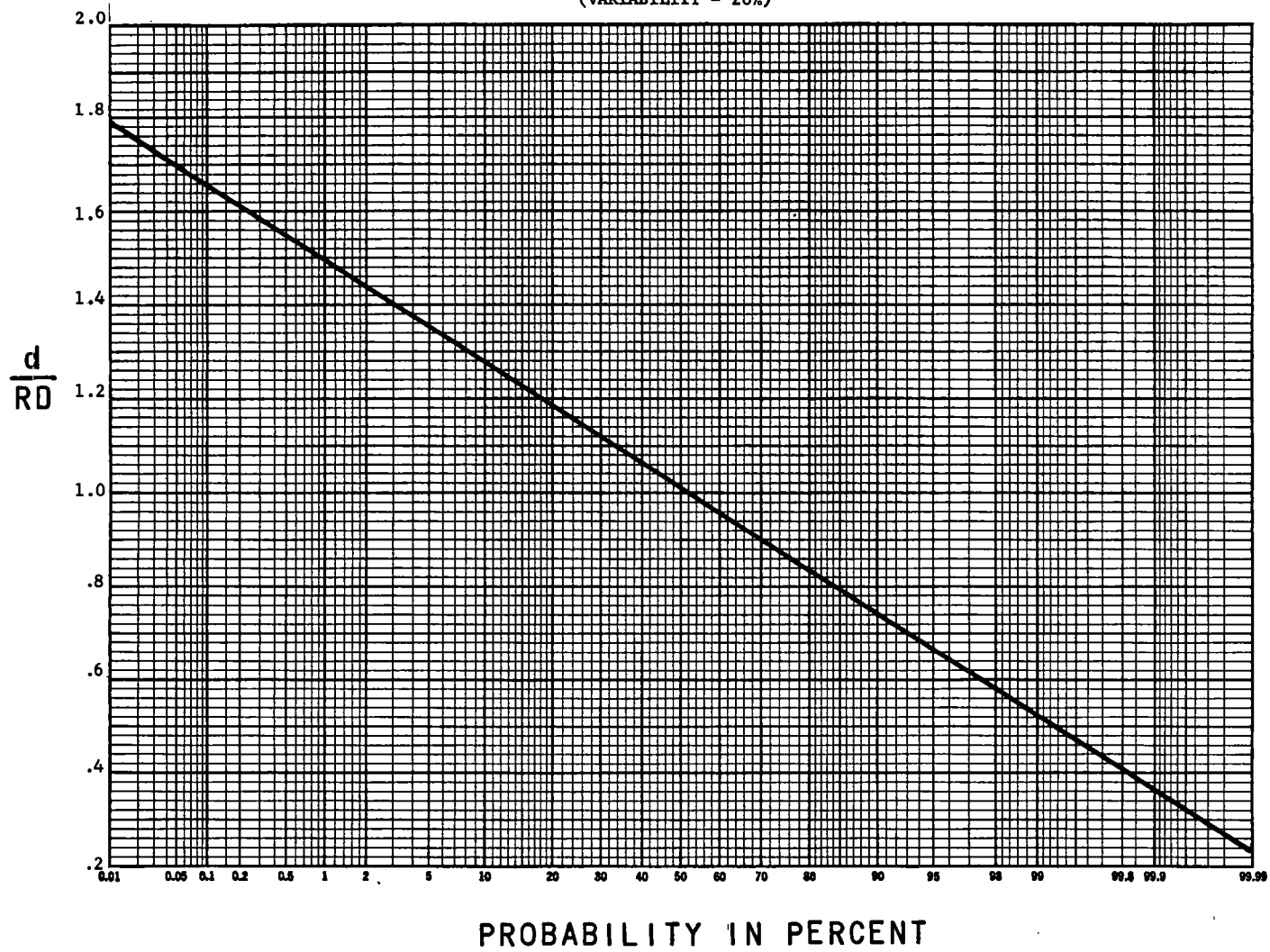


POINT TARGET GRAPH (Variability=20%)



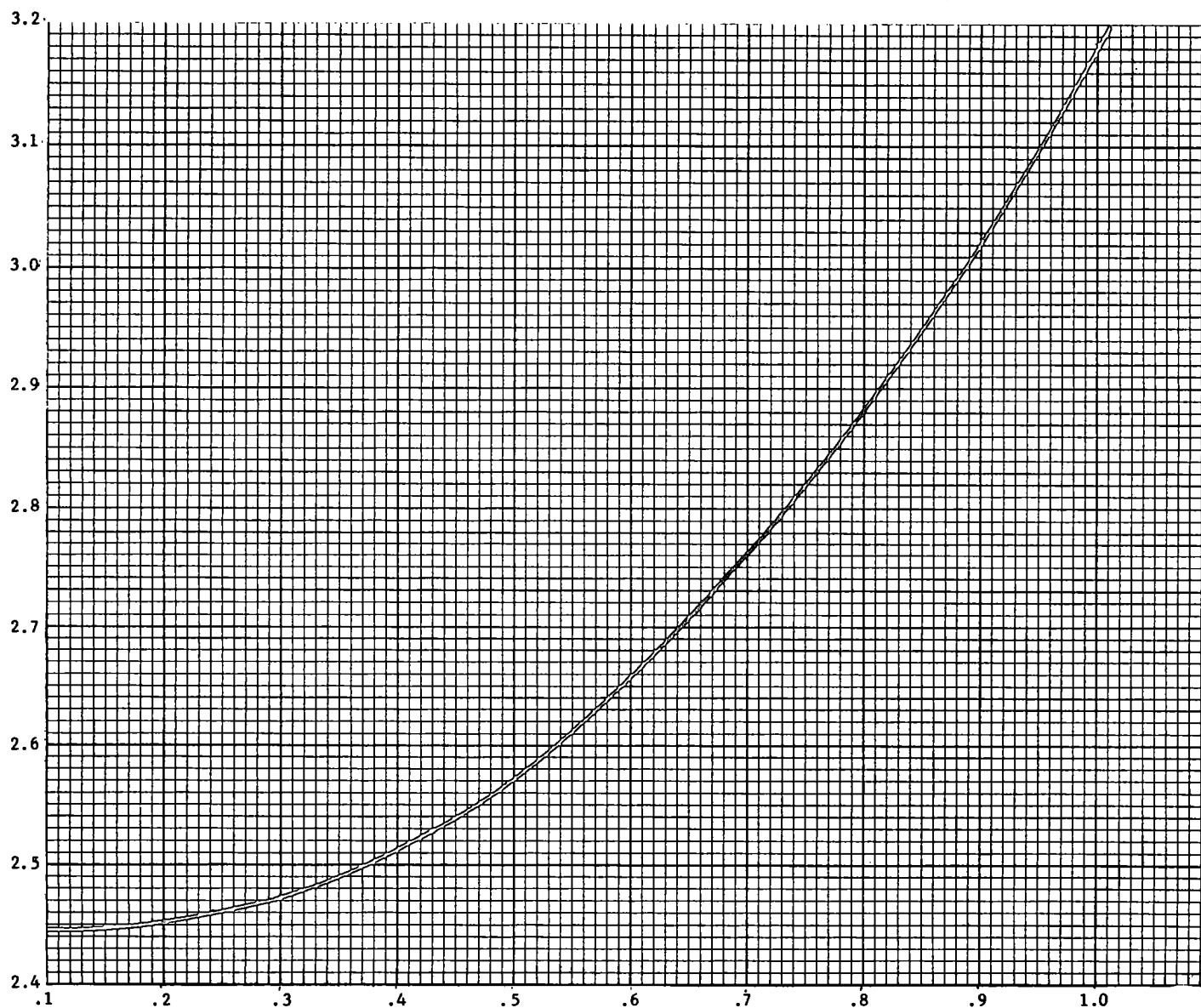
POINT TARGET GRAPH EXTENSION

(VARIABILITY = 20%)



RADIUS OF A CIRCLE ABOUT AIMING POINT WHICH
CONTAINS 90% OF ROUNDS DELIVERED.

$\frac{CD90}{PE_{\text{Larger}}}$



$PE_{\text{Smaller}} / PE_{\text{Larger}}$

EQUIVALENT TARGET TABLE

Exposed personnel	Protected personnel	Wheeled vehicles	Tanks and artillery
<u>Primary:</u> Personnel in the open, thermal effects not considered.	<u>Primary:</u> Personnel in foxholes.	<u>Primary:</u> Moderate damage to wheeled vehicles.	<u>Primary:</u> Moderate damage to tanks and other tracked combat vehicles and severe damage to artillery.
<u>Secondary:</u> Personnel in the upper stories of frame buildings.	<u>Secondary:</u> None.	<u>Secondary:</u> Moderate damage to amphibious vehicles on land, truck-mounted engineer equipment, and missile and rocket launchers.	<u>Secondary:</u> Prompt casualties to personnel in armored vehicles for yields of 150 KT or below. Delayed casualties to personnel in armored vehicles for yields greater than 150 KT but less than 320 KT. Moderate damage to infantry weapons, track-mounted engineer equipment, and railroad locomotives. Severe damage to telephones; switchboards; double-apron barbed wire; and highway, railroad, and floating bridges.

RADII OF VULNERABILITY TABLE

YIELD	EXPOSED PERSONNEL	PROTECTED PERSONNEL	TANKS APC's	WHEELED VEHICLES	SUPPLY DEPOTS
1 KT	1460	1220	240	420	190
10 KT	3480	1650	600	1060	480
50 KT	7110	2410	1150	2010	910
100 KT	9650	3220	1510	2650	1200
500 KT	19220	6360	2880	5040	2280
1 MT	25920	8590	3800	6660	3010
5 MT	50200	16700	7200	12600	5700

NOTE: To obtain a radius of vulnerability, enter the YIELD column at the nearest listed yield.

RADIATION TRANSMISSION FACTOR TABLE

Protection	Initial		Residual
	Neutrons	Gamma	
Armored carrier	0.7	0.7	0.6
Built-up city area (in open)	1.0	0.5	0.7*
Foxholes	0.3	0.2	0.1
Frame house			
First floor	1.0	0.9	0.5
Basement	0.5	0.3	0.1
Multistory buildings			
Top floor	1.0	0.9	0.1
Intermediate floors	0.9	0.9	.02
Lower floor	0.9	0.5	0.1
Basement	0.5	0.3	.01
Shelter, closed (3 ft earth cover)	0.05	0.02	0.005
Tanks			
Light	0.3	0.2	0.2
Medium	0.3	0.1	0.1
Trucks			
1/4-ton	1.0	1.0	0.8
3/4-ton	1.0	1.0	0.7
2 1/2-ton	1.0	1.0	0.6
4-7 ton	1.0	1.0	0.5
Woods	1.0	1.0	0.8*

*NOTE: These transmission factors do not apply to ground survey doses.

RADI OF INDUCED CONTAMINATION TABLE

ESTIMATED 2 RAD/HR RADIUS OF INDUCED
CONTAMINATION

YIELD	HORIZONTAL RADIUS
1 KT	400 meters
10 KT	700 meters
100 KT	1000 meters
1 MT	1400 meters

NOTE: To determine the approximate distance from ground zero at which radiation measuring instruments should be used, enter the above table at the nearest listed yield.

RESIDUAL RADIATION TRANSMISSION FACTORS FOR TROOP SAFETY

M60 Tank	0.04
M482A Tank	0.02
M59 APC	0.2
M113 APC	0.3
M116 Cargo Carrier	0.6
M548 Cargo Carrier	0.7
M114 Reconnaissance Vehicle	0.3
M108 SP Howitzer	0.3
M109 SP Howitzer	0.2
XM104 SP Howitzer	0.5
M107 SP Gun	0.4
M88 Recovery vehicle	0.09
M577 Command Post Carrier	0.3
XM551 Armored Reconnaissance/ Airborne Assault Vehicle	0.2
M728 Combat Engineer Vehicle	0.04

GLOSSARY

This glossary is the same as provided in FM 101-31-1. It is reproduced in this manual for the convenience of the nuclear targetanalyst. Terms that appear in JCS Pub 1 and AR 380-5 are not reproduced herein.

Across the board -- Used in connection with weapon effects curves. It indicates that consideration is given to all the effects curves that describe radiation doses, blast effects on various drag-type targets, thermal effects, and overpressures.

Atmospheres -- A measure of normal atmospheric pressure (e.g., 2 atmospheres indicate two times the normal atmospheric pressure).

Graphical portrayal -- A two-dimensional representation (generally to scale) of the distance that the normal atmospheric pressure specified effects extend. It is also a visual representation of the results of an analysis.

Militarily significant weapon effects -- Those effects that will have a definite influence on the military capabilities or the degree of risk. See also Tactically significant weapon effects.

Minimum-dose exit route -- The route of egress from a radioactive-contaminated area that presents the smallest amount of radiation to the exiting party or parties.

Nonsymptomatic dose -- A dose of radiation that may not be detected because the recipient does not display the behavior or physical characteristics that would normally accompany such a dose.

Readiness status -- Indicates the degree of preparation of both the weapon and the delivery unit for delivery of nuclear fires (to include air-delivered weapons).

Soft targets -- Those targets that are easily damaged by nuclear weapon effects, e.g., exposed personnel, most buildings (particularly frame), forests and crops.

Tactically significant weapon effects -- Those effects that will have a definite influence on the military action currently underway. See also Militarily significant weapon effects.

Weapon -- An assembled and ready-for-delivery nuclear device in the military configuration. For artillery, a weapon is a complete round; for a rocket, the motor plus the warhead; for a missile, the complete missile, to include the warhead; for an air-delivery weapon, the warhead in the bomb; and for an atomic demolition munition, the complete munition. See also Weapon system.

Weapon system -- The complete weapon plus the associated delivery means. See also Weapon.

Worst-case burst -- In analyzing targets, it indicates the location of the burst that occurs at the outer limits of the acceptable dispersion in both range and elevation. In considering the vulnerability of friendly forces, it indicates the point of maximum damage.

By Order of the Secretaries of the Army and the Navy:

Official:

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The Adjutant General.*

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